ACME

产品目录

PRODUCT SUMMARY


USI
USI

CATALOGUE
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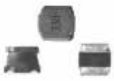
RANGE OF PRODUCTS SOLD

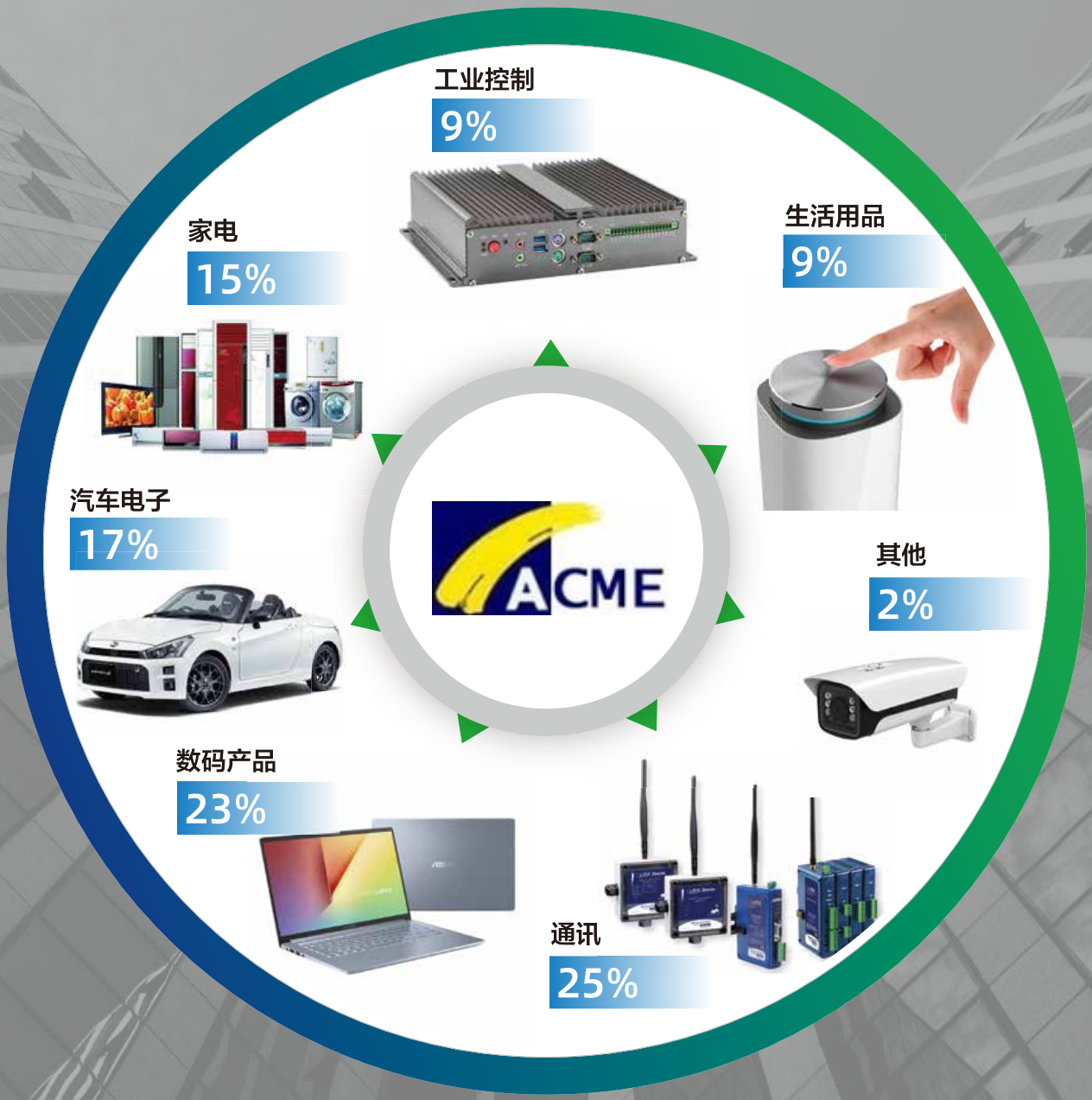
销售产品范围

Model No	Processing	Model No	Processing
 AECD	3.5*3.0~13.0*13.0mm H: 1.1~7.0mm 0.82~8200uH / ~9.5A ~0.2mΩ	Customized spec  AEDR	
 AERH	3.2*3.2~12.5*12.5mm H: 1.0~10.0mm 0.8 ~1000uH/~9.8A	Customized spec  AER	
 AENR	1.0~1.2mm 30 H: 1.0~1.5mm 40 H: 1.0~2.6mm 50 H: 2.0~4.0mm 60 H: 2.0~4.5mm 80 H: 4.0mm L:0.47~1000uH / I: ~13.8A DCR: ~0.01mΩ	Customized spec  AERxH Customized spec  AERT	040 H: 1.2~2.0mm 050 H: 1.2~3.0mm 060 H: 1.2~3.0mm 100 H: 3.0~4.0mm 125 H: 3.5~4.0mm 1.0~1000uH / ~10A~0.6mΩ
Ultra Large Current  AEMD	7.7*6.9~14.7*6.7mm H: 5.0~7.3mm 0.1~0.51uH/~87A	Common Mode Chokes  AERT	
 AECM		 AEB	

NOTE:Can be customized according to customer requirements
可以依据客户要求定制

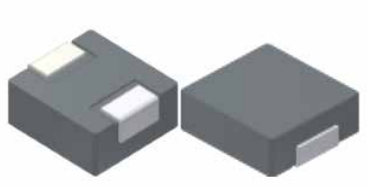
MARKET NICHE

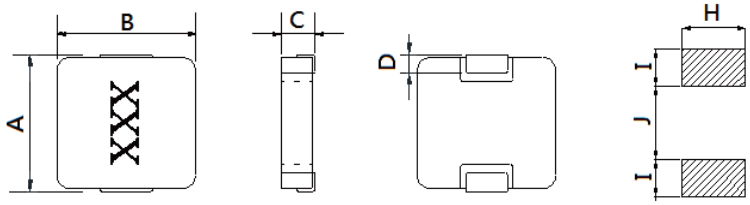
市场领域



EXTERNAL DIMENSIONS

(Unit: mm)





Type	A	B	C	D	H	I	J
AEMD0412T	4.4±0.35	4.2±0.25	1.0±0.2	0.8±0.30	2.50	1.50	2.2

AEMD0412T Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max.	Idc1 (Isat) (A)Typ.	Idc2 (Irms) (A)Typ.
AEMD0412T-R15M	0.15	100	9.0	15	7.5
AEMD0412T-R22M	0.22	100	11	11	7.0
AEMD0412T-R33M	0.33	100	19	8.4	6.5
AEMD0412T-R47M	0.47	100	21	6.8	6.0
AEMD0412T-R68M	0.68	100	36	6.0	4.7
AEMD0412T-1R0M	1.0	100	47	5.5	4.5
AEMD0412T-1R5M	1.5	100	75	4.0	3.25
AEMD0412T-2R2M	2.2	100	83.5	3.5	2.75
AEMD0412T-4R7M	4.7	100	195	2.8	1.8

NOTE: Tolerance value : M = ±20%

Features

- AEMD series, an automatic assembly power inductor, is shielded with Iron powder and suitable for the Portable DC-DC converter application.
- RoHS compliant.
- Highly accurate dimensions can be mounted automatically.
- Terminals are highly resistant to pull forces.
- Superior EMI electrical with ultra low radiation comparing to conventional shielded power inductors.

Applications

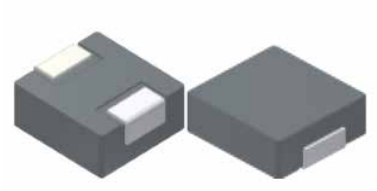
- LCD TV, Monitor, Ap Router, STB, Smart Phone, Touch Panel, DSC, Game Console and other electronic devices.

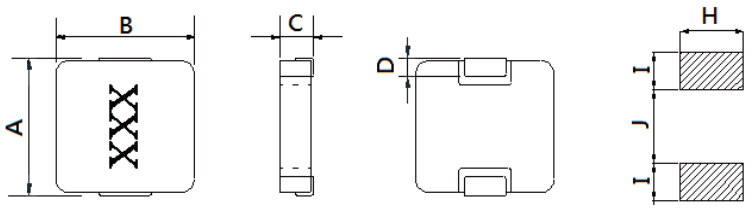
Test Conditions

- Idc1(Isat):DC current (A) that will cause L0 to drop approximately 30 % Typ.
- Idc2(Irms):. DC current (A) that will cause an approximate ΔT of 40 °C Typ
- Operating Temperature : -55 ℃ ~ +125 ℃ .

EXTERNAL DIMENSIONS

(Unit: mm)





Type	A	B	C	D	H	I	J
AEMD0420T	4.4±0.35	4.2±0.25	1.8±0.2	0.8±0.30	2.50	1.50	2.2

AEMD0420T Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max.	Idc1 (Isat) (A)Typ.	Idc2 (Irms) (A)Typ.
AEMD0420T-R10M	0.10	100	4.0	22.0	13
AEMD0420T-R22M	0.22	100	6.6	12.5	9.5
AEMD0420T-R33M	0.33	100	11	12	10
AEMD0420T-R47M	0.47	100	14	9.5	7.5
AEMD0420T-R56M	0.56	100	16	10	7.5
AEMD0420T-R68M	0.68	100	18	9.0	7.0
AEMD0420T-1R0M	1.0	100	27	7.0	6.0
AEMD0420T-1R2M	1.2	100	27	7.0	6.0
AEMD0420T-1R5M	1.5	100	46	6.0	5.0
AEMD0420T-2R2M	2.2	100	58	5.0	4.5
AEMD0420T-3R3M	3.3	100	87	4.0	3.3
AEMD0420T-4R7M	4.7	100	105	3.0	2.8
AEMD0420T-6R8M	6.8	100	175	2.5	2.4
AEMD0420T-100M	10	100	282	2.2	1.6

NOTE: Tolerance value: M = ±20%

Features

- AEMD series, an automatic assembly power inductor, is shielded with Iron powder and suitable for the Portable DC-DC converter application.
- RoHS compliant.
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Test Conditions

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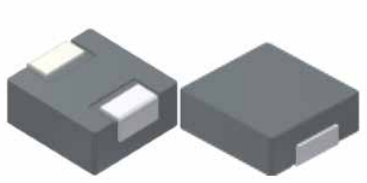
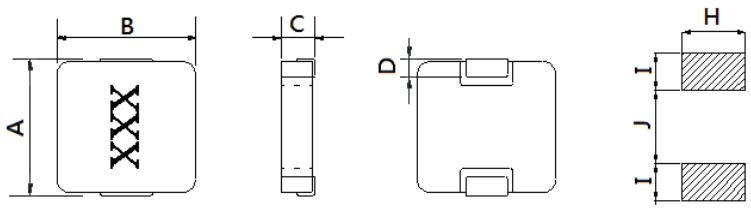
- Operating Temperature : -55 ℃～+125 ℃.

EXTERNAL DIMENSIONS

(Unit: mm)





Type	A	B	C	D	H	I	J
AEMD0518T	5.4±0.30	5.2±0.20	1.6±0.2	1.2±0.20	2.50	1.50	2.2

AEMD0518T Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max.	Idc1 (Isat) (A)Typ.	Idc2 (Irms) (A)Typ.
AEMD0518T-R47M	0.47	100	9.0	15.5	10.5
AEMD0518T-R56M	0.56	100	10	15.0	9.5
AEMD0518T-1R0M	1.0	100	17	9.0	8.0
AEMD0518T-1R5M	1.5	100	26	9.0	7.5
AEMD0518T-2R2M	2.2	100	35	6.5	5.0
AEMD0518T-3R3M	3.3	100	58	5.0	4.5
AEMD0518T-4R7M	4.7	100	85	4.0	3.5
AEMD0518T-6R8M	6.8	100	120	3.4	2.8
AEMD0518T-100M	10	100	155	3.0	2.5

NOTE: Tolerance value: M = ±20%

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EXTERNAL DIMENSIONS

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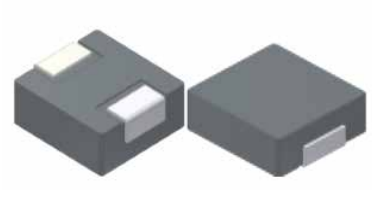

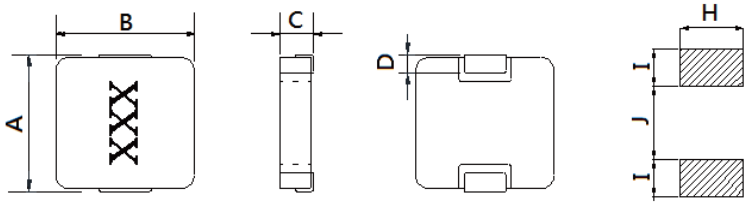

Type	A	B	C	D	H	I	J
AEMD0530T	5.4±0.30	5.2±0.20	2.8±0.2	1.2±0.20	2.50	1.50	2.2

AEMD0530T Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max.	Idc1 (Isat) (A)Typ.	Idc2 (Irms) (A)Typ.
AEMD0530T-R10M	0.10	100	3.0	33	25
AEMD0530T-R20M	0.20	100	3.9	14.5	14
AEMD0530T-R47M	0.47	100	8.5	12.0	11
AEMD0530T-R68M	0.68	100	12	11.5	9.0
AEMD0530T-1R0M	1.00	100	14	11.0	8.5
AEMD0530T-1R2M	1.20	100	16	11.0	8.5
AEMD0530T-1R5M	1.50	100	25	8.5	8.2
AEMD0530T-2R2M	2.20	100	29	7.5	7.0
AEMD0530T-3R3M	3.30	100	38	6.0	5.5
AEMD0530T-4R7M	4.70	100	60	5.0	4.5
AEMD0530T-6R8M	6.80	100	90	4.0	3.5
AEMD0530T-100M	10	100	125	3.5	3.2

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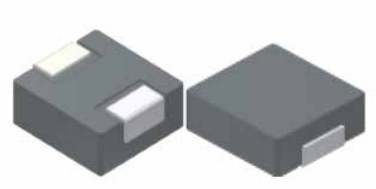

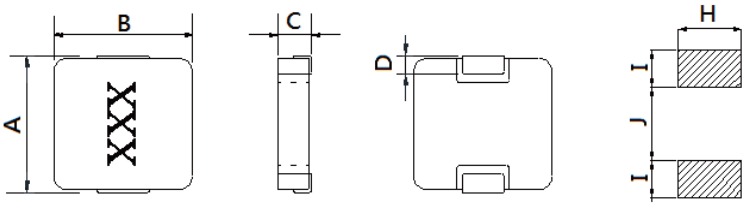

Type	A	B	C	D	H	I	J
AEMD0618T	7.0±0.30	6.6±0.20	1.6±0.2	1.6±0.20	3.50	2.35	3.7

AEMD0618T Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max.	Idc1 (Isat) (A)Typ.	Idc2 (Irms) (A)Typ.
AEMD0618T-R47M	0.47	100	8.4	18	11.5
AEMD0618T-R68M	0.68	100	12.0	17	9.5
AEMD0618T-1R0M	1.0	100	16.0	14	8.5
AEMD0618T-1R5M	1.5	100	26.0	12	8.0
AEMD0618T-2R2M	2.2	100	35.0	8.0	7.0
AEMD0618T-3R3M	3.3	100	50.0	6.5	4.5
AEMD0618T-4R7M	4.7	100	62.0	5.0	4.0
AEMD0618T-6R8M	6.8	100	110.0	4.5	3.0
AEMD0618T-100M	10	100	155.0	2.5	2.3

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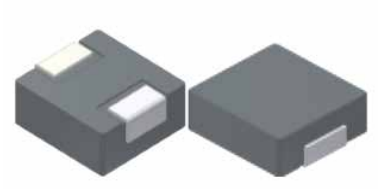

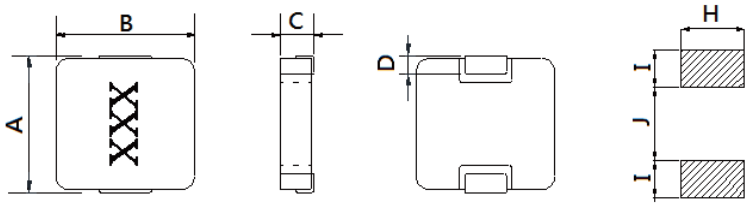

Type	A	B	C	D	H	I	J
AEMD0624T	7.0±0.30	6.6±0.20	2.2±0.2	1.6±0.30	3.50	2.35	3.7

AEMD0624T Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max.	Idc1 (Isat) (A)Typ.	Idc2 (Irms) (A)Typ.
AEMD0624T-R22M	0.22	100	3.0	34	21
AEMD0624T-R33M	0.33	100	4.1	24.5	18
AEMD0624T-R47M	0.47	100	5.1	22	15
AEMD0624T-R56M	0.56	100	6.5	17	13
AEMD0624T-R68M	0.68	100	7.0	16	12
AEMD06241-1R0M	1.0	100	13.5	16	9.0
AEMD0624T-1R5M	1.5	100	20	15	9.0
AEMD0624T-2R2M	2.2	100	28	14	7.0
AEMD0624T-3R3M	3.3	100	39	13	5.5
AEMD0624T-4R7M	4.7	100	50	7.5	5.0
AEMD0624T-6K8M	6.8	100	70	6.0	4.0
AEMD0624T-100M	10	100	101	4.0	3.1
AEMD0624T-150M	15	100	160	3.3	2.5
AEMD0624T-220M	22	100	230	3.3	2.0

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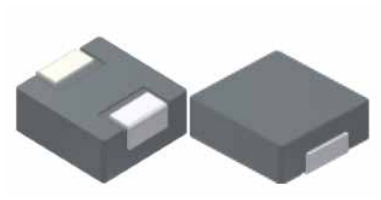
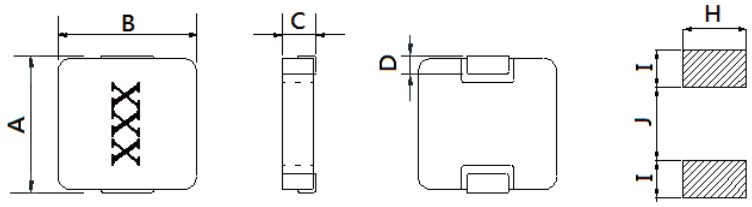
EXTERNAL DIMENSIONS

(Unit: mm)





Type	A	B	C	D	H	I	J
AEMD0630T	7.0±0.30	6.6±0.20	2.8±0.2	1.6±0.30	3.50	2.35	3.7

AEMD0630T Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max.	Idc1 (Isat) (A)Typ.	Idc2 (Irms) (A)Typ.
AEMD0630T-R22M	0.22	100	3.0	34	24
AEMD0630T-R24M	0.24	100	3.1	26	23
AEMD0630T-R33M	0.33	100	3.5	25	21
AEMD0630T-R47M	0.47	100	4.1	20	18
AEMD0630T-R56M	0.56	100	4.5	18	16.5
AEMD0630T-R68M	0.68	100	5.3	17	16
AEMD0630T-R82M	0.82	100	6.0	16	14
AEMD0630T-1R0M	1.0	100	7.4	15	12
AEMD0630T-1R5M	1.5	100	12.1	14	12
AEMD0630T-2R2M	2.2	100	15	10	9.5
AEMD0630T-3R3M	2.2	100	22	9.5	8.5
AEMD0630T-4R7M	4.7	100	33	6.5	6.0
AEMD0630T-6R8M	6.8	100	48	6.0	5.0
AEMD0630T-8R2M	8.2	100	60	6.0	5.0
AEMD0630T-100M	10	100	67	5.5	4.5
AEMD0630T-150M	15	100	115	4.5	3.0
AEMD0630T-220M	22	100	200	3.0	2.3
AEMD0630T-330M	33	100	310	2.5	2.0

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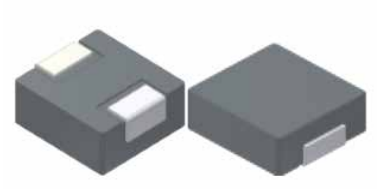
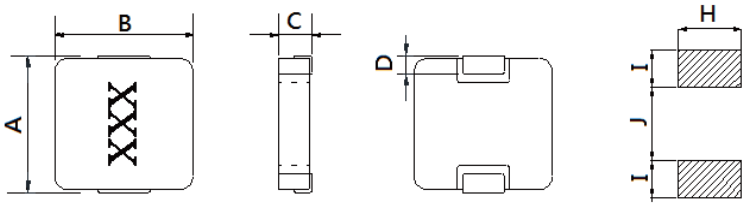
(Unit: mm)





Type	A	B	C	D	H	I	J
AEMD1040T	9.5±0.20	10.0±0.30	3.8±0.2	2.0±0.50	4.10	4.10	5.4

AEMD1040T Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max.	Idc1 (Isat) (A)Typ.	Idc2 (Irms) (A)Typ.
AEMD1040T-R15M	0.15	100	0.65	75	45
AEMD1040T-R22M	0.22	100	1.0	60	35
AEMD1040T-R30M	0.30	100	1.1	50	35
AEMD1040T-R36M	0.36	100	1.2	50	30
AEMD1040T-R47M	0.47	100	1.7	40	30
AEMD1040T-R56M	0.56	100	1.8	33	25
AEMD1040T-R68M	0.68	100	2.4	30	23
AEMD1040T-R80M	0.80	100	2.7	29	23
AEMD1040T-1R0M	1.0	100	3.3	28	19
AEMD1040T-1R5M	1.5	100	4.2	26	16
AEMD1040T-2R2M	2.2	100	7.0	18	12
AEMD1040T-3R3M	3.3	100	11.8	16	11
AEMD1040T-4R7M	4.7	100	20	15	9.0
AEMD1040T-6R8M	6.8	100	25	12	8.5
AEMD1040T-8R2M	8.2	100	27	9.0	8.0
AEMD1040T-100M	10	100	30	8.5	7.8
AEMD1040T-150M	15	100	45	7.0	6.5
AEMD1040T-220M	22	100	66	5.5	5.0
AEMD1040T-330M	33	100	92	5.0	4.4
AEMD1040T-470M	47	100	145	3.5	3.3
AEMD1040T-680M	68	100	195	3.0	2.5

NOTE: Tolerance value: M = ±20%

Features

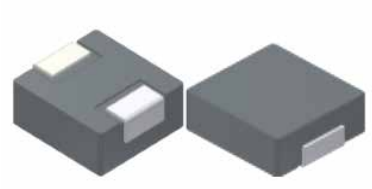
- AEMD series, an automatic assembly power inductor, is shielded with Iron powder and suitable for the Portable DC-DC converter application.
- RoHS compliant.
- Highly accurate dimensions can be mounted automatically.
- Terminals are highly resistant to pull forces.
- Superior EMI electrical with ultra low radiation comparing to conventional shielded power inductors.

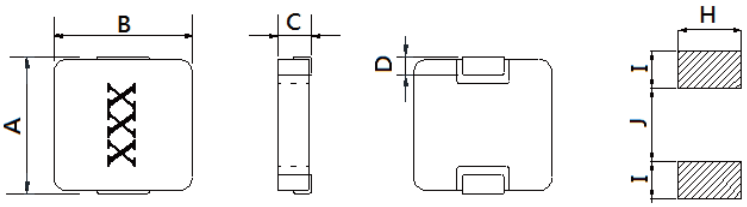
Test Conditions

- Idc1(Isat):DC current (A) that will cause L0 to drop approximately 30 % Typ.
- Idc2(Irms):. DC current (A) that will cause an approximate ΔT of 40 °C Typ
- Operating Temperature : -55 ℃ ~ +125 ℃ .

EXTERNAL DIMENSIONS

(Unit: mm)





Type	A	B	C	D	H	I	J
AEMD1350T	13.45±0.30	12.60±0.30	4.8±0.2	2.0±0.50	5.50	3.25	8.0

AEMD1350T Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max./Typ.	Idc1 (Isat) (A)Typ.	Idc2 (Irms) (A)Typ.
AEMD1350T-R22M	0.22	100	0.7/0.5	42.0	82.0
AEMD1350T-R36M	0.36	100	0.9/0.7	40.0	80.0
AEMD1350T-R47M	0.47	100	1.1/0.8	37.0	62.0
AEMD1350T-R68M	068	100	1.3/1.1	33.0	60.0
AEMD135oT-R82M	0.82	100	1.8/1.0	30.0	48.0
AEMD1350T-1R0M	1.0	100	1.9/1.6	28.0	45.0
AEMD1350T-1R5M	1.5	100	3.3/2.8	22.0	38.0
AEMD1350T-2R2M	2.2	100	4.2/3.5	20.0	34.0
AEMD1350T-3R3M	3.3	100	7.8/6.5	17.0	25.0
AEMD1350T-4R7M	4.7	100	10.0/8.4	14.0	21.0
AEMD1350T-6R8M	6.8	100	18.0/14.5	11.0	16.5
AEMD1350T-8R2M	8.2	100	19.0/16.0	10.0	14.5
AEMD1350T-100M	10	100	22.0/19.0	9.0	12.5
AEMD1350T-150M	15	100	27.0/22.0	8.0	11.0
AEMD1350T-220M	22	100	40.4/33.7	6.5	8.0
AEMD1350T-330M	33	100	57.0/47.5	6.0	6.8
AEMD1350T-470M	47	100	97.2/81.0	4.5	6.0
AEMD1350T-680M	68	100	144/122	2.5	4.5
AEMD1350T-101M	100	100	230/210	2.2	4.0

NOTE: Tolerance value: M = ±20%

Features

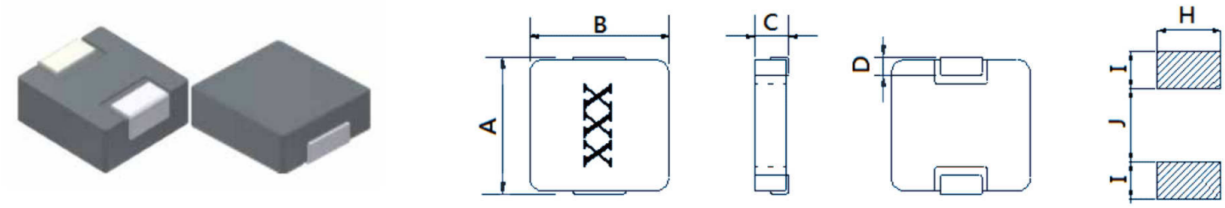
- AEMD series, an automatic assembly power inductor, is shielded with Iron powder and suitable for the Portable DC-DC converter application.
- RoHS compliant.
- Highly accurate dimensions can be mounted automatically.
- Terminals are highly resistant to pull forces.
- Superior EMI electrical with ultra low radiation comparing to conventional shielded power inductors.

Test Conditions

- Idc1(Isat):DC current (A) that will cause L0 to drop approximately 30 % Typ.
- Idc2(Irms):. DC current (A) that will cause an approximate ΔT of 40 °C Typ
- Operating Temperature : -55℃~ +125℃.

EXTERNAL DIMENSIONS

(Unit: mm)



Type	A	B	C	D	H	I	J
AEMD1770T	17.15±0.30	17.15±0.30	6.8±0.2	2.1±0.30	13.32	3.82	12.42

AEMD1770T Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max./Typ.	Idc1 (Isat) (A)Typ.	Idc2 (Irms) (A)Typ.
AEMD1770T-1R0M	1.0	100	1.5/1.3	65.0	62.0
AEMD1770T-2R2M	2.2	100	2.5/2.15	37.0	34.0
AEMD1770T-3R3M	3.3	100	2.93/2.79	35.0	27.0
AEMD1770T-4R7M	4.7	100	4.72/4.12	27.0	24.0
AEMD1770T-6R8M	6.8	100	7.55/6.55	20.0	22.0
AEMD1770T-8R2M	8.2	100	8.7/8.1	16.0	20.0
AEMD1770T-100M	10	100	10.0/9.3	14.0	18.0
AEMD1770T-150M	15	100	17.5/16.5	13.0	14.5
AEMD1770T-200M	20	100	21.9/19.5	9.7	12.0
AEMD1770T-220M	22	100	23.0/20.5	9.5	11.0
AEMD1770T-330M	33	100	37.0/35.1	9.0	10.0
AEMD1770T-470M	47	100	47.0/41.0	6.8	7.5
AEMD1770T-680M	68	100	85.0/74.0	5.2	6.5
AEMD1770T-101M	100	100	130/120	4.0	4.5

NOTE: Tolerance value: M = ±20%

Features

- AEMD series, an automatic assembly power inductor, is shielded with Iron powder and suitable for the Portable DC-DC converter application.
- RoHS compliant.
- Highly accurate dimensions can be mounted automatically.
- Terminals are highly resistant to pull forces.
- Superior EMI electrical with ultra low radiation comparing to conventional shielded power inductors.

Applications

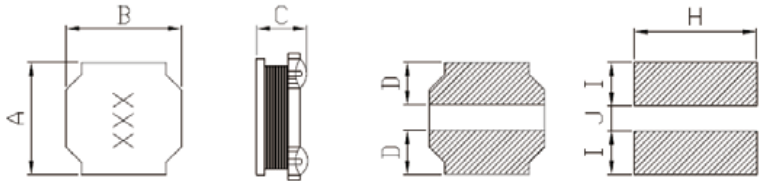
- LCD TV, Monitor, Ap Router, STB, Smart Phone, Touch Panel, DSC, Game Console and other electronic devices.

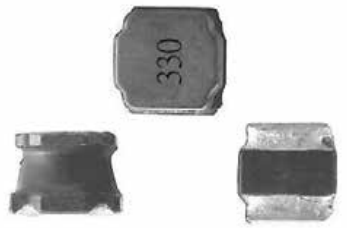
Test Conditions

- Idc1(Isat):DC current (A) that will cause L0 to drop approximately 30 % Typ.
- Idc2(Irms):. DC current (A) that will cause an approximate ΔT of 40 °C Typ
- Operating Temperature : -55 ℃~ +125 ℃.

EXTERNAL DIMENSIONS

(Unit: mm)





Type	A	B	C	D	H	I	J
AENR3015CT	3.0±0.2	3.0±0.2	1.2±0.3	0.75±0.2	2.70	0.8	1.5

AENR3015CT Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)±30%	Idc1 (Isat) (A)Max.	Idc2 (Irms) (A)Max.
AENR3015CT-1R0NS	1.0	100	37	2.32	2.10
AENR3015CT-1R5NS	1.5	100	50	2.30	1.70
AENR3015CT-2R2NS	2.2	100	60	1.60	1.60
AENR3015CT-3R3MS	3.3	100	80	1.32	1.36
AENR3015CT-4R7MS	4.7	100	125	1.10	1.09
AENR3015CT-6R8MS	6.8	100	200	0.85	0.85
AENR3015CT-100MS	10	100	250	0.72	0.77
AENR3015CT-220MS	22	100	460	0.52	0.57

NOTE: Tolerance value: M = ±20%, N = ±30%

Features

- AENR series, an automatic assembly power inductor, is shielded with magnetic resin and suitable for the portable DC-DC converter application.
- RoHS compliant.
- Highly accurate dimensions can be mounted automatically.
- Terminals are highly resistant to pull forces.
- Superior EMI electrical with ultra low radiation comparing to conventional shielded power inductors.

Applications

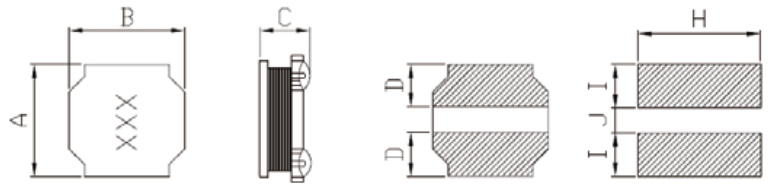
- LCD TV, Monitor, Ap Router, STB, Smart Phone, Touch Panel, DSC, Game Console and other electronic devices.

Test Conditions

- Idc1(Isat) base on inductance change△L / L0A： drop 30% Max.
- Idc2(Irms) base on Temp. rise △T： 40℃ Max..
- Operating Temperature : -40℃~ +125℃.

EXTERNAL DIMENSIONS

(Unit: mm)



Type	A	B	C	D	H	I	J
AENR4018CT	4.0±0.2	4.0±0.2	1.5±0.3	0.95±0.2	3.70	1.1	1.9

AENR4018CT Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)±30%	Idc1 (Isat) (A)Max.	Idc2 (Irms) (A)Max.
AENR4018CT-1R0NS	1.0	100	23	4.50	2.50
AENR4018CT-1R5NS	1.5	100	33	3.35	2.34
AENR4018CT-2R2MS	2.2	100	44	2.70	2.00
AENR4018CT-3R3MS	3.3	100	70	2.45	1.90
AENR4018CT-4R7MS	4.7	100	90	1.70	1.70
AENR4018CT-6R8MS	6.8	100	124	1.45	1.30
AENR4018CT-100MS	10	100	200	1.30	1.10
AENR4018CT-150MS	15	100	268	0.94	0.92
AENR4018CT-220MS	22	100	390	0.80	0.80
AENR4018CT-330MS	33	100	560	0.65	0.60
AENR4018CT-470MS	47	100	756	0.57	0.50

NOTE: Tolerance value: M = ±20%, N = ±30%

Features

- AENR series, an automatic assembly power inductor, is shielded with magnetic resin and suitable for the portable DC-DC converter application.
- RoHS compliant.
- Highly accurate dimensions can be mounted automatically.
- Terminals are highly resistant to pull forces.
- Superior EMI electrical with ultra low radiation comparing to conventional shielded power inductors.

Applications

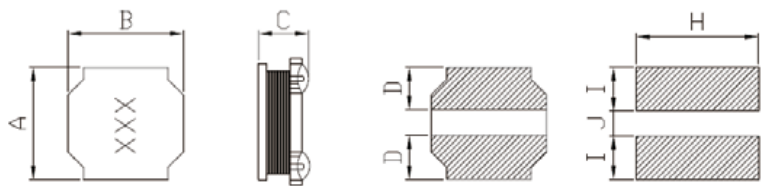
- LCD TV, Monitor, Ap Router, STB, Smart Phone, Touch Panel, DSC, Game Console and other electronic devices.

Test Conditions

- Idc1(Isat) base on inductance change△L / L0A： drop 30% Max.
- Idc2(Irms) base on Temp. rise △T： 40℃ Max..
- Operating Temperature : -40˚C~ +125˚C.

EXTERNAL DIMENSIONS

(Unit: mm)



Type	A	B	C	D	H	I	J
AENR5020CT	5.0±0.2	5.0±0.2	1.7±0.3	1.25±0.2	4.20	1.4	2.3

AENR5020CT Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)±30%	Idc1 (Isat) (A)Max.	Idc2 (Irms) (A)Max.
AENR5020CT-1R0NS	1.0	100	20	4.33	3.70
AENR5020CT-1R5NS	1.5	100	26	4.10	3.20
AENR5020CT-2R2NS	2.2	100	38	3.85	2.90
AENR5020CT-3R3NS	3.3	100	46	3.25	2.40
AENR5020CT-4R7MS	4.7	100	65	2.40	2.05
AENR5020CT-6R8MS	6.8	100	92	2.10	1.70
AENR5020CT-100MS	10	100	125	1.80	1.50
AENR5020CT-150MS	15	100	180	1.44	1.25
AENR5020CT-220MS	22	100	250	1.18	1.05
AENR5020CT-330MS	33	100	370	0.97	0.83
AENR5020CT-470MS	47	100	560	0.81	0.70

NOTE: Tolerance value: M = ±20%, N = ±30%

Features

- AENR series, an automatic assembly power inductor, is shielded with magnetic resin and suitable for the portable DC-DC converter application.
- RoHS compliant.
- Highly accurate dimensions can be mounted automatically.
- Terminals are highly resistant to pull forces.
- Superior EMI electrical with ultra low radiation comparing to conventional shielded power inductors.

Applications

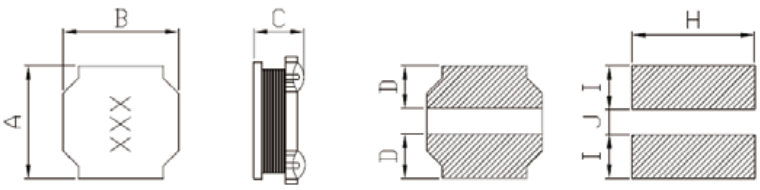
- LCD TV, Monitor, Ap Router, STB, Smart Phone, Touch Panel, DSC, Game Console and other electronic devices.

Test Conditions

- Idc1(Isat) base on inductance change△L / L0A： drop 30% Max.
- Idc2(Irms) base on Temp. rise △T： 40℃ Max..
- Operating Temperature : -40℃~ +125℃.

EXTERNAL DIMENSIONS

(Unit: mm)



Type	A	B	C	D	H	I	J
AENR5040CT	5.0±0.2	5.0±0.2	3.7±0.3	1.25±0.2	4.20	1.4	2.3

AENR5040CT Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)±30%	Idc1 (Isat) (A)Max.	Idc2 (Irms) (A)Max.
AEND5040CT-1R0NS	1.0	100	13	7.35	4.90
AEND5040CT-IR5NS	1.5	100	15	6.30	4.30
AEND5040CT-2R2NS	2.2	100	19	4.90	3.80
AEND5040CT-2R7NS	2.7	100	22	4.30	3.60
AEND5040CT-3R3NS	3.3	100	24	3.95	3.40
AEND5040CT-3R9NS	3.9	100	27	3.55	3.20
AEND5040CT-4R7NS	4.7	100	30	3.50	3.00
AEND5040CT-6R8MS	6.8	100	43	2.90	2.50
AEND5040CT-100MS	10	100	64	2.35	2.10
AEND5040CT-150MS	15	100	86	2.00	2.00
AEND5040CT-220MS	22	100	129	1.60	1.50
AEND5040CT-330MS	33	100	188	1.30	1.20
AEND5040CT-470MS	47	100	272	1.10	1.00
AEND5040CT-680MS	68	100	400	0.90	0.80
AEND5040CT-101MS	100	100	560	0.75	0.70

NOTE: Tolerance value: M = ±20%, N = ±30%

Features

- AENR series, an automatic assembly power inductor, is shielded with magnetic resin and suitable for the portable DC-DC converter application.
- RoHS compliant.
- Highly accurate dimensions can be mounted automatically.
- Terminals are highly resistant to pull forces.
- Superior EMI electrical with ultra low radiation comparing to conventional shielded power inductors.

Applications

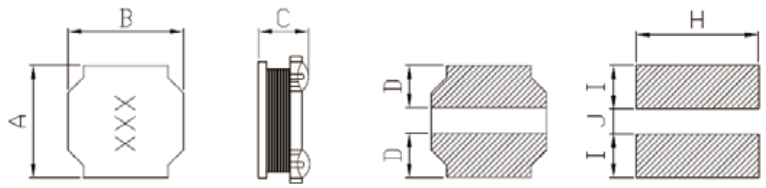
- LCD TV, Monitor, Ap Router, STB, Smart Phone, Touch Panel, DSC, Game Console and other electronic devices.

Test Conditions

- Idc1(Isat) base on inductance change△L / L0A： drop 30% Max.
- Idc2(Irms) base on Temp. rise △T： 40℃ Max..
- Operating Temperature : -40℃~ +125℃.

EXTERNAL DIMENSIONS

(Unit: mm)



Type	A	B	C	D	H	I	J
AENR6020CT	6.0±0.3	6.0±0.3	1.7±0.3	1.55±0.2	5.70	1.7	2.8

AENR6020CT Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)±30%	Idc1 (Isat) (A)Max.	Idc2 (Irms) (A)Max.
AENR6020CT-1R0NS	1.0	100	20	4.30	3.50
AENR6020CT-1R5NS	1.5	100	25	4.25	3.20
AENR6020CT-2R2NS	2.2	100	35	3.75	2.75
AENR6020CT-3R3NS	3.3	100	45	3.15	2.60
AENR6020CT-4R7NS	4.7	100	58	3.00	2.00
AENR6020CT-5R6MS	5.6	100	70	2.40	1.90
AENR6020CT-6R8MS	6.8	100	85	2.20	1.80
AENR6020CT-100MS	10	100	120	1.75	1.40
AENR6020CT-150MS	15	100	160	1.50	1.20
AENR6020CT-220MS	22	100	240	1.25	1.00
AENR6020CT-330MS	33	100	400	1.15	0.95
AENR6020CT-470MS	47	100	500	1.00	0.80

NOTE: Tolerance value: M = ±20%, N = ±30%

Features

- AENR series, an automatic assembly power inductor, is shielded with magnetic resin and suitable for the portable DC-DC converter application.
- RoHS compliant.
- Highly accurate dimensions can be mounted automatically.
- Terminals are highly resistant to pull forces.
- Superior EMI electrical with ultra low radiation comparing to conventional shielded power inductors.

Applications

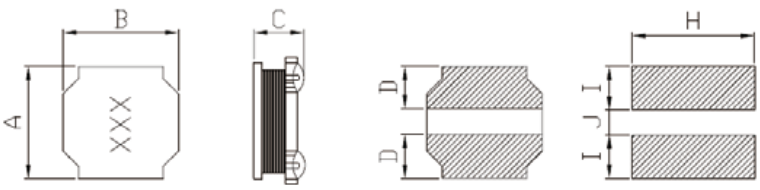
- LCD TV, Monitor, Ap Router, STB, Smart Phone, Touch Panel, DSC, Game Console and other electronic devices.

Test Conditions

- Idc1(Isat) base on inductance change△L / L0A： drop 30% Max.
- Idc2(Irms) base on Temp. rise △T： 40℃ Max..
- Operating Temperature : -40℃~ +125℃.

EXTERNAL DIMENSIONS

(Unit: mm)



AENR6045T Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)±30%	Idc1 (Isat) (A)Max.	Idc2 (Irms) (A)Max.
AENR6045T-1R0□S	1.0	100	12	12.2	6.50
AENR6045T-1R5□S	1.5	100	15	10.4	5.90
AENR6045T-1R8□S	1.8	100	17	9.6	5.60
AENR6045T-2R2□S	2.2	100	18.4	8.8	5.10
AENR6045T-2R3□S	2.3	100	19	8.8	5.00
AENR6045T-3R0□S	3.0	100	22	7.8	4.40
AENR6045T-3R3□S	3.3	100	24	7.5	4.30
AENR6045T-3R6□S	3.6	100	24	7.5	4.30
AENR6045T-3R9□S	3.9	100	26	7.0	4.00
AENR6045T-4R5□S	4.5	100	31	6.7	3.90
AENR6045T-4R7□S	4.7	100	31	6.03	3.51
AENR6045T-5R1□S	5.1	100	33	5.40	3.15
AENR6045T-6R3□S	6.3	100	40	4.95	2.97
AENR6045T-6R8□S	6.8	100	43	4.77	2.88
AENR6045T-100□S	10	100	57	4.05	2.43
AENR6045T-150□S	15	100	80	3.06	1.98
AENR6045T-180□S	18	100	100	2.79	1.62
AENR6045T-220□S	22	100	125	2.70	1.71
AENR6045T-270□S	27	100	160	2.25	1.17
AENR6045T-330□S	33	100	165	2.07	1.26
AENR6045T-470□S	47	100	245	1.71	1.08
AENR6045T-680□S	68	100	330	1.44	0.90
AENR6045T-101□S	100	100	500	1.17	0.72
AENR6045T-331□S	330	100	1800	0.63	0.31
AENR6045T-102□S	1000	100	6000	0.36	0.19

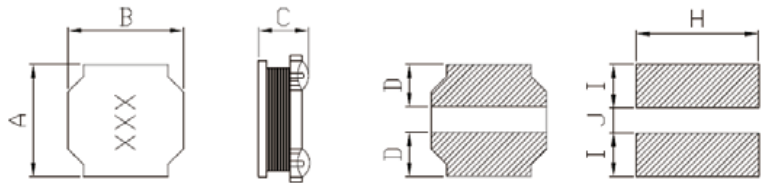
NOTE: □Tolerance value: M = ±20%, N = ±30%

Test Conditions

- Idc1(Isat) base on inductance change△L / L0A： drop 30% Max.
- Idc2(Irms) base on Temp. rise △T： 40℃ Max..
- Operating Temperature : -40℃~ +125℃.

EXTERNAL DIMENSIONS

(Unit: mm)



Type	A	B	C	D	H	I	J
AENR8040T	8.0±0.3	8.0±0.3	3.7±0.5	2.30±0.3	7.50	2.5	3.4

AENR8040T Series

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)±30%	Idc1 (Isat) (A)Max.	Idc2 (Irms) (A)Max.
AENR8040T-R90□S	0.9	100	7.0	12.42	7.24
AENR8040T-1R0□S	1.0	100	7.5	11.70	7.15
AENR8040T-1R4□S	1.4	100	9.0	9.72	7.02
AENR8040T-1R5□S	1.5	100	9.5	9.07	6.93
AENR8040T-2R0□S	2.0	100	11	8.64	6.66
AENR8040T-2R2□S	2.2	100	11.5	8.28	6.48
AENR8040T-2R5□S	2.5	100	13	7.38	5.67
AENR8040T-3R3□S	3.3	100	15	6.75	5.40
AENR8040T-4R7□S	4.7	100	18	5.40	4.95
AENR8040T-5R6□S	5.6	100	23	5.13	4.68
AENR8040T-6R8□S	6.8	100	28	4.86	4.59
AENR8040T-100□S	10	100	38	3.87	3.42
AENR8040T-120□S	12	100	45	3.42	3.15
AENR8040T-150□S	15	100	50	3.24	2.88
AENR8040T-180□S	18	100	68	2.79	2.43
AENR8040T-220□S	22	100	80	2.52	2.34
AENR8040T-330□S	33	100	110	2.07	1.80
AENR8040T-470□S	47	100	160	1.71	1.57
AENR8040T-680□S	68	100	240	1.53	1.30
AENR8040T-101□S	100	100	340	1.26	0.99
AENR8040T-121□S	120	100	425	0.99	0.90
AENR8040T-151□S	150	100	480	0.90	0.81
AENR8040T-221□S	220	100	670	0.84	0.54
AENR8040T-271□S	270	100	900	0.74	0.49
AENR8040T-821□S	820	100	2800	0.36	0.34

NOTE: □Tolerance value: M = ±20%, N = ±30%

Test Conditions

- Idc1(Isat) base on inductance change△L / L0A： drop 30% Max.
- Idc2(Irms) base on Temp. rise △T： 40℃ Max..
- Operating Temperature : -40℃~ +125℃.

EXTERNAL DIMENSIONS

(Unit: mm)

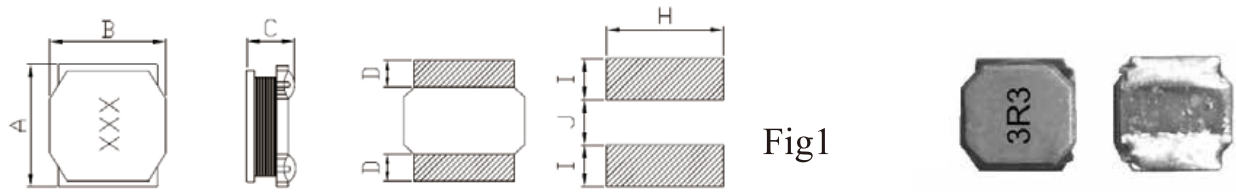


Fig1

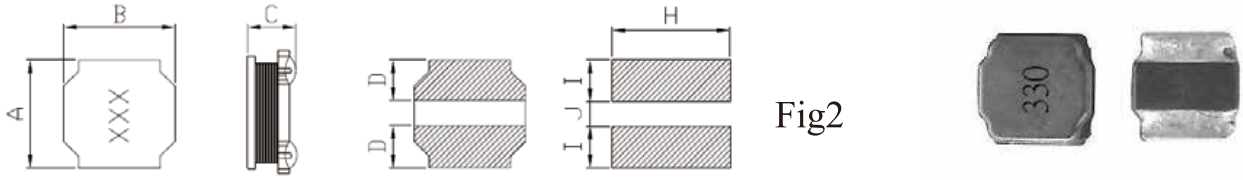


Fig2

Type	A	B	C	D	H	I	J	Fig
AENR201610AT	2.0±0.2	1.6±0.2	0.88±0.2	0.60±0.2	1.60±0.2	0.80	0.80	1

AENR201610AT (Alloy)Sreies

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max./Typ.	Idc1 (Isat) (A)Max./Typ.	Idc2 (Irms) (A)Max./Typ.
AENR201610AT-R24M	0.24	100	40/33	4.5/5.5	3.0/3.4
AENR201610AT-R33M	0.33	100	49/41	4.4/5.2	2.7/3.1
AENR201610AT-R47M	0.47	100	49/41	4.0/4.7	2.7/3.1
AENR201610AT-R56M	0.56	100	53/43	3.8/4.5	2.6/2.8
AENR201610AT-R68M	0.68	100	65/57	3.5/4.0	2.5/2.8
AENR201610AT-1R0M	1.0	100	95/78	3.3/3.8	2.0/2.3
AENR201610AT-1R5M	1.5	100	130/110	1.9/2.3	1.7/2.0
AENR201610AT-2R2M	2.2	100	180/160	1.9/2.1	1.4/1.6
AENR201610AT-3R3M	3.3	100	307/245	1.4/1.6	1.1/1.3
AENR201610AT-4R7M	4.7	100	425/370	1.1/1.4	0.9/1.0
AENR201610AT-6R8M	6.8	100	620/500	0.9/1.1	0.7/0/8
AENR201610AT-8R2M	8.2	100	870/670	0.8/1.0	0.6/0.7
AENR201610AT-100M	10	100	875/700	0.8/0.9	0.6/0.7

NOTE: Tolerance value: M = ±20%

Features

- AENR xxAT series, an Alloy DR core and automatic assembly power inductor, is shielded with magnetic resin and suitable for the portable DC-DC converter application.
- RoHS compliant.
- Have a highrt Saturation current than Molding choke
- Highly accurate dimensions can be mounted automatically.
- Terminals are highly resistant to pull forces.
- Superior EMI electrical with ultra low radiation comparing to conventional shielded power inductors.

Test Conditions

- Idc1(Isat) base on inductance change△L / L0A： drop 30% Max.
- Idc2(Irms) base on Temp. rise △T： 40℃ Max..
- Operating Temperature : -40℃~ +125℃.

EXTERNAL DIMENSIONS

(Unit: mm)

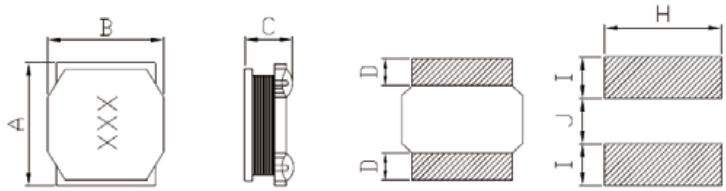


Fig1

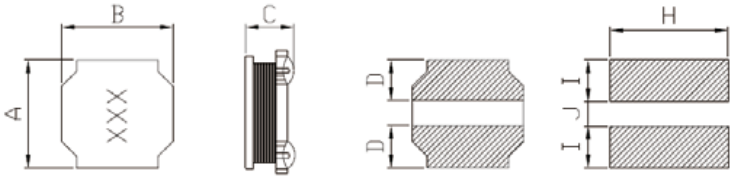


Fig2

Type	A	B	C	D	H	I	J	Fig
AENR252010AT	2.5±0.2	2.0±0.2	0.85±0.2	0.80±0.2	2.00±0.2	0.85	0.80	1

AENR252010AT (Alloy)Sreies

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max./Typ.	Idc1 (Isat) (A)Max./Typ.	Idc2 (Irms) (A)Max./Typ.
AENR252010AT-R24M	0.24	100	33/25	6.1/7.1	3.7/4.5
AENR252010AT-R33M	0.33	100	39/33	4.8/5.5	3.5/4.0
AENR252010AT-R47M	0.47	100	45/40	4.4/5.2	3.2/3.6
AENR252010AT-R68M	0.68	100	59/49	3.3/3.6	2.7/3.2
AENR252010AT-1R0M	1.0	100	85/71	3.1/3.5	2.2/2.5
AENR252010AT-1R5M	1.5	100	106/90	2.6/3.0	2.0/2.3
AENR252010AT-2R2M	2.2	100	155/129	1.9/2.2	1.5/1.8
AENR252010AT-3R3M	3.3	100	235/196	1.6/1.8	1.2/1.4
AENR252010AT-4R7M	4.7	100	290/255	1.3/1.5	1.0/1.1
AENR252010AT-6R8M	6.8	100	480/380	1.0/1.1	0.9/1.0
AENR252010AT-100M	10	100	740/630	0.9/1.0	0.6/0.7

NOTE: Tolerance value: M = ±20%

Features

- AENR xxAT series, an Alloy DR core and automatic assembly power inductor, is shielded with magnetic resin and suitable for the portable DC-DC converter application.
- RoHS compliant.
- Have a highrt Saturation current than Molding choke
- Highly accurate dimensions can be mounted automatically.
- Terminals are highly resistant to pull forces.
- Superior EMI electrical with ultra low radiation comparing to conventional shielded power inductors.

Applications

- AP Router. STBs, DC to DC converters

Test Conditions

- Idc1(Isat) base on inductance change△L / L0A：drop 30% Max.
- Idc2(Irms) base on Temp. rise △T：40℃ Max..
- Operating Temperature : -40℃~ +125℃.

EXTERNAL DIMENSIONS

(Unit: mm)

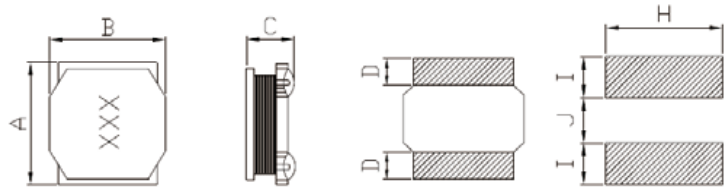


Fig1

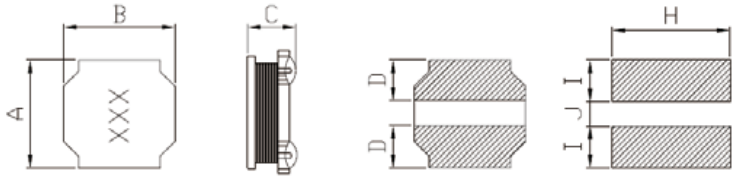


Fig2

Type	A	B	C	D	H	I	J	Fig
AENR251012AT	2.5±0.3	2.0±0.3	1.06±0.2	0.80±0.2	2.00±0.2	0.85	0.80	1

AENR252012AT (Alloy)Sreies

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max./Typ.	Idc1 (Isat) (A)Max./Typ.	Idc2 (Irms) (A)Max./Typ.
AENR252012AT-R24M	0.24	100	23/19	6.5/7.8	4.0/4.7
AENR252012AT-R33M	0.33	100	28/23	5.3/6.3	3.7/4.3
AENR252012AT-R47M	0.47	100	35/29	4.9/5.6	3.4/4.0
AENR252012AT-R68M	0.68	100	45/39	3.8/4.5	3.1/3.6
AENR252012AT-1R0M	1.0	100	54/48	3.6/4.2	3.0/3.4
AENR252012AT-2R2M	2.2	100	120/100	2.6/3.0	1.9/2.1
AENR252012AT-3R3M	3.3	100	215/175	1.7/2.1	1.5/1.8
AENR252012AT-4R7M	4.7	100	260/225	1.6/1.9	1.2/1.4
AENR252012AT-6R8M	6.8	100	366/305	1.2/1.4	0.9/1.1
AENR252012AT-100M	10	100	480/435	1.1/1.3	0.8/1.0

NOTE: Tolerance value: M = ±20%

Features

- AENR xxAT series, an Alloy DR core and automatic assembly power inductor, is shielded with magnetic resin and suitable for the portable DC-DC converter application.
- RoHS compliant.
- Have a highrt Saturation current than Molding choke
- Highly accurate dimensions can be mounted automatically.
- Terminals are highly resistant to pull forces.
- Superior EMI electrical with ultra low radiation comparing to conventional shielded power inductors.

Applications

- AP Router. STBs, DC to DC converters

Test Conditions

- Idc1(Isat) base on inductance change△L / L0A： drop 30% Max.
- Idc2(Irms) base on Temp. rise △T： 40℃ Max..
- Operating Temperature : -40℃~ +125℃.

EXTERNAL DIMENSIONS

(Unit: mm)

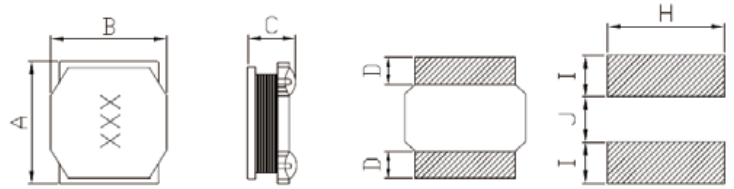


Fig1

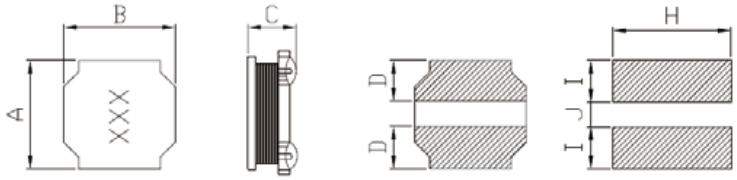


Fig2

Type	A	B	C	D	H	I	J	Fig
AENR 4012AT	4.0±0.2	4.0±0.2	1.00±0.2	1.20±0.2	3.70±0.2	1.30	1.60	2

AENR4012AT (Alloy)Sreies

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max./Typ.	Idc1 (Isat) (A)Max./Typ.	Idc2 (Irms) (A)Max./Typ.
AENR4012AT-R56M	0.56	100	50/40	6.0/7.0	3.2/3.8
AENR4012AT-R68M	0.68	100	55/42	5.2/6.2	3.2/3.8
AENR4012AT-1R0M	1.0	100	59/49	3.8/4.6	3.0/3.5
AENR4012AT-2R2M	2.2	100	90/75	2.8/3.3	2.5/3.0
AENR4012AT-3R3M	3.3	100	130/106	2..8/3.3	2.0/2.5
AENR4012AT-4R7M	4.7	100	175/145	2.3/2.6	1.8/2.1
AENR4012AT-6R8M	6.8	100	230/190	1.6/2.2	1.5/1.7
AENR4012AT-100M	10	100	360/300	1.5/1.8	0.8/1.0

NOTE: Tolerance value: M = ±20%

Features

- AENR xxAT series, an Alloy DR core and automatic assembly power inductor, is shielded with magnetic resin and suitable for the portable DC-DC converter application.
- RoHS compliant.
- Have a highrt Saturation current than Molding choke
- Highly accurate dimensions can be mounted automatically.
- Terminals are highly resistant to pull forces.
- Superior EMI electrical with ultra low radiation comparing to conventional shielded power inductors.

Applications

- AP Router. STBs, DC to DC converters

Test Conditions

- Idc1(Isat) base on inductance change△L / L0A： drop 30% Max.
- Idc2(Irms) base on Temp. rise △T： 40℃ Max..
- Operating Temperature : -40˚C~ +125˚C.

EXTERNAL DIMENSIONS

(Unit: mm)

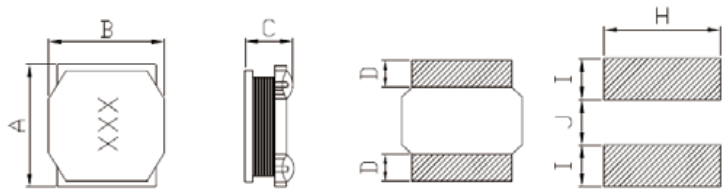


Fig1

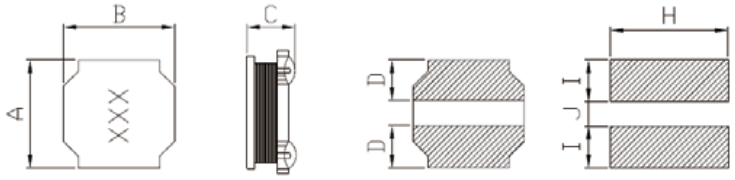


Fig2

Type	A	B	C	D	H	I	J	Fig
AENR4020AT	4.0±0.3	4.0±0.3	1.80±0.2	1.20±0.2	3.70±0.2	1.30	1.60	2

AENR 4020AT (Alloy)Sreies

Part Number	Inductance L(uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max./Typ.	Idc1 (Isat) (A)Max./Typ.	Idc2 (Irms) (A)Max./Typ.
AENR4020AT-R24M	0.24	100	17/13	14.0/17.0	6.0/7.0
AENR4020AT-R33M	0.33	100	20/15	13.0/16.0	5.9/6.8
AENR4020AT-R47M	0.47	100	22/16	11.0/12.0	5.9/6.8
AENR4020AT-R68M	0.68	100	24/19	9.0/11.5	5.8/6.7
AENR4020AT-1R0M	1.0	100	28/23	8.7/11.0	5.8/6.7
AENR4020AT-1R5M	1.5	100	38/32	7.7/9.6	5.2/6.0
AENR4020AT-2R2M	2.2	100	56/46	6.0/7.5	4.0/4.8
AENR4020AT-3R3M	3.3	100	88/73	4.7/5.9	3.4/4.0
AENR4020AT-4R7M	4.7	100	115/95	4.0/4.9	2.8/3.3
AENR4020AT-6R8M	6.8	100	160/130	43.0/4.2	2.4/2.8
AENR4020AT-8R2M	8.2	100	220/175	2.9/3.8	2.1/2.4
AENR4020AT-100M	10	100	220/190	2.8/3.5	2.0/2.35
AENR4020AT-150M	15	100	400/305	2.1/2.8	0.7/0.98
AENR4020AT-220M	22	100	545/415	1.3/1.5	1.1/1.3

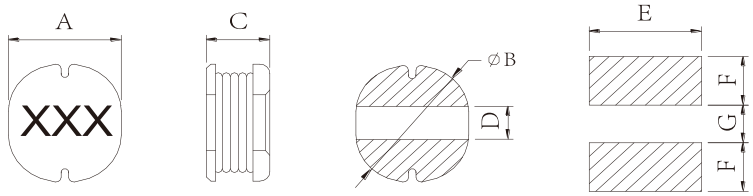
NOTE: Tolerance value: M = ±20%

Test Conditions

- Idc1(Isat) base on inductance change△L / L0A： drop 30% Max.
- Idc2(Irms) base on Temp. rise △T： 40℃ Max..
- Operating Temperature : -40℃~ +125℃.

EXTERNAL DIMENSIONS

(Unit:mm)



Type	A	B	C	D	E	F	G
AECD32T	3.0±0.3	3.5±0.3	2.3±0.3	1.0Ref.	3.5	1.50	1.0

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AECD32T-1R0□S	1.0	100	0.06	2.70
AECD32T-1R2□S	1.2	100	0.07	2.50
AECD32T-1R5□S	1.5	100	0.07	2.30
AECD32T-1R8□S	1.8	100	0.08	2.00
AECD32T-2R2□S	2.2	100	0.09	1.85
AECD32T-2R7□S	2.7	100	0.10	1.70
AECD32T-3R3□S	3.3	100	0.11	1.60
AECD32T-3R9□S	3.9	100	0.12	1.50
AECD32T-4R7□S	4.7	100	0.15	1.35
AECD32T-5R6□S	5.6	100	0.16	1.30
AECD32T-6R8□S	6.8	100	0.18	1.20
AECD32T-8R2□S	8.2	100	0.20	1.05
AECD32T-100□S	10	100	0.25	0.90
AECD32T-120□S	12	100	0.28	0.85
AECD32T-150□S	15	100	0.40	0.80
AECD32T-180□S	18	100	0.46	0.75
AECD32T-220□S	22	100	0.66	0.65
AECD32T-270□S	27	100	0.75	0.55
AECD32T-330□S	33	100	0.85	0.50
AECD32T-390□S	39	100	1.12	0.45
AECD32T-470□S	47	100	1.27	0.40
AECD32T-560□S	56	100	1.45	0.35
AECD32T-680□S	68	100	1.85	0.32
AECD32T-820□S	82	100	2.10	0.30
AECD32T-101□S	100	100	2.85	0.28
AECD32T-121□S	120	100	3.20	0.25
AECD32T-151□S	150	100	4.60	0.23
AECD32T-181□S	180	100	5.00	0.21
AECD32T-221□S	220	100	5.70	0.19
AECD32T-271□S	270	100	8.60	0.17
AECD32T-331□S	330	100	10.0	0.15
AECD32T-391□S	390	100	10.8	0.14

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AECD32T-471□S	470	100	14.3	0.13
AECD32T-561□S	560	100	16.0	0.12
AECD32T-681□S	680	100	18.0	0.11
AECD32T-821□S	820	100	22.5	0.10
AECD32T-102□S	1000	100	26.0	0.09
AECD32T-122□S	1200	100	30.0	0.08

NOTE: □Tolerance value: K = ±10%, L = ±15%, M = ±20%

Test Equipment and Conditions

- Inductance is measured with HP-4284A LCR Meter or equivalent.
- Maximum allowable DC current is that which causes a 10% inductance reduction of the initial value, or coil temperature to rise by 40℃,whichever is smaller.(Reference ambient temperature 20℃)

Features

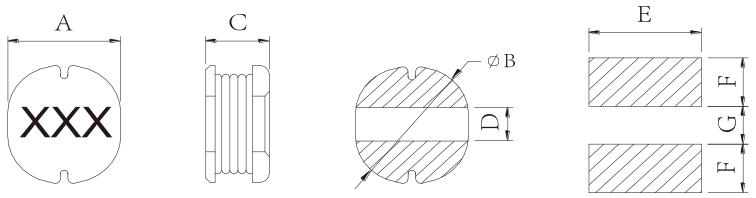
- Excellent solderability and high heat resistance
- Excellent terminal strength construction.
- Packed in embossed carrier tape and can be used by automatic mounting machine.

Applications

- Power supply for VCR, OA equipment, LCD television set notebook, DC to DC converters, DC to AC inverters etc.

EXTERNAL DIMENSIONS

(Unit:mm)



Type	A	B	C	D	E	F	G
AECD43T	4.0±0.3	4.5±0.3	3.2±0.3	1.1Ref.	4.5	2.00	1.0

AECD43T Series

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AECD43T-1R0□S	1.0	100	0.0487	2.56
AECD43T-1R4□S	1.4	100	0.0562	2.52
AECD43T-1R8□S	1.8	100	0.0637	1.95
AECD43T-2R2□S	2.2	100	0.0712	1.75
AECD43T-2R7□S	2.7	100	0.0787	1.58
AECD43T-3R3□S	3.3	100	0.0862	1.44
AECD43T-3R9□S	3.9	100	0.0937	1.33
AECD43T-5R6□S	5.6	100	0.1257	1.25
AECD43T-6R8□S	6.8	100	0.1312	1.18
AECD43T-8R2□S	8.2	100	0.1462	1.12
AECD43T-100□S	10	100	0.1820	1.04
AECD43T-120□S	12	100	0.2100	0.97
AECD43T-150□S	15	100	0.2350	0.85
AECD43T-180□S	18	100	0.3380	0.74
AECD43T-220□S	22	100	0.3780	0.68
AECD43T-270□S	27	100	0.5220	0.62
AECD43T-330□S	33	100	0.5400	0.56
AECD43T-390□S	39	100	0.5870	0.52
AECD43T-470□S	47	100	0.8440	0.44
AECD43T-560□S	56	100	0.9370	0.42
AECD43T-680□S	68	100	1.1170	0.37
AECD43T-820□S	82	100	1.1800	0.30
AECD43T-880□S	88	100	1.2000	0.30
AECD43T-101□S	100	100	1.5000	0.27
AECD43T-151□S	150	100	2.5000	0.21
AECD43T-181□S	180	100	3.5000	0.19

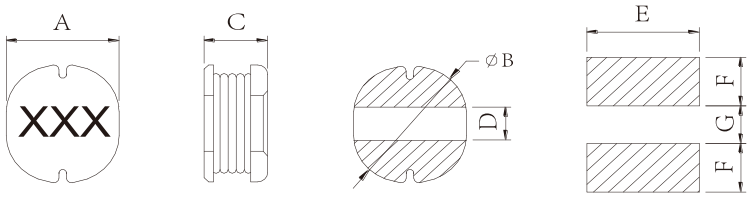
NOTE: □Tolerance value: K = ±10%, L = ±15%, M = ±20%

Test Equipment and Conditions

- Inductance is measured with AEP-4284A LCR Meter or equivalent.
- Maximum allowable DC current is that which causes a 10% inductance reduction of the initial value, or coil temperature to rise by 40°C,whichever is smaller.(Reference ambient temperature 20°C)
- Excellent solderability and high heat resistance
- Packed in embossed carrier tape and can be used by automatic mounting machine.

EXTERNAL DIMENSIONS

(Unit:mm)



Type	A	B	C	D	E	F	G
AECD54T	5.2±0.3	5.8±0.3	4.5±0.3	1.4Ref.	5.7	2.55	1.2

AECD54T Series

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AECD54T-2R2□S	2.2	100	0.024	3.50
AECD54T-3R3□S	3.3	100	0.027	3.00
AECD54T-4R7□S	4.7	100	0.027	2.50
AECD54T-6R8□S	6.8	100	0.045	2.20
AECD54T-100□S	10	100	0.10	1.44
AECD54T-120□S	12	100	0.12	1.40
AECD54T-150□S	15	100	0.14	1.30
AECD54T-180□S	18	100	0.15	1.23
AECD54T-220□S	22	100	0.18	1.11
AECD54T-270□S	27	100	0.20	0.97
AECD54T-330□S	33	100	0.23	0.88
AECD54T-390□S	39	100	0.32	0.80
AECD54T-470□S	47	100	0.37	0.72
AECD54T-560□S	56	100	0.42	0.68
AECD54T-680□S	68	100	0.46	0.61
AECD54T-820□S	82	100	0.60	0.58
AECD54T-101□S	100	100	0.70	0.52
AECD54T-121□S	120	100	0.93	0.48
AECD54T-151□S	150	100	1.10	0.40
AECD54T-181□S	180	100	1.38	0.38
AECD54T-221□S	220	100	1.57	0.35

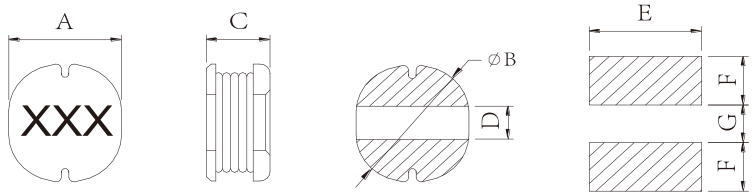
NOTE: ☐Tolerance value: K = ±10%, L = ±15%, M = ±20%.

Test Equipment and Conditions

- Inductance is measured with AEP-4284A LCR Meter or equivalent.
- Maximum allowable DC current is that which causes a 10% inductance reduction of the initial value, or coil temperature to rise by 40°C,whichever is smaller.(Reference ambient temperature 20°C)
- Excellent solderability and high heat resistance
- Packed in embossed carrier tape and can be used by automatic mounting machine.

EXTERNAL DIMENSIONS

(Unit:mm)



Type	A	B	C	D	E	F	G
AECD73T	7.0±0.3	7.8±0.3	3.5±0.5	1.7Ref.	7.5	3.40	1.5

AECD73T Sersie

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AECD73T-4R7□S	4.7	100	0.0250	1.96
AECD73T-5R6□S	5.6	100	0.0300	1.79
AECD73T-8R2□S	8.2	100	0.0500	1.42
AECD73T-100□S	10	100	0.0803	1.44
AECD73T-120□S	12	100	0.0897	1.39
AECD73T-150□S	15	100	0.1040	1.24
AECD73T-180□S	18	100	0.1110	1.12
AECD73T-220□S	22	100	0.1290	1.07
AECD73T-270□S	27	100	0.1530	0.94
AECD73T-330□S	33	100	0.1700	0.85
AECD73T-390□S	39	100	0.2170	0.74
AECD73T-470□S	47	100	0.2520	0.68
AECD73T-560□S	56	100	0.2820	0.64
AECD73T-680□S	68	100	0.3320	0.59
AECD73T-820□S	82	100	0.4060	0.54
AECD73T-101□S	100	100	0.4810	0.51
AECD73T-121□S	120	100	0.5360	0.49
AECD73T-151□S	150	100	0.7550	0.40

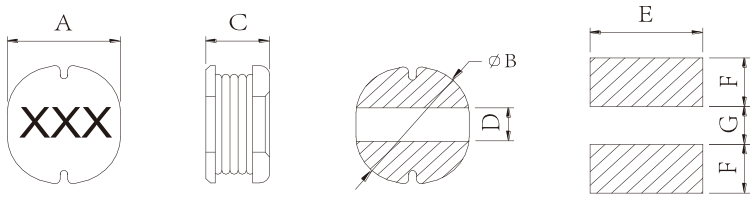
NOTE: □Tolerance value: K = ±10%, L = ±15%, M = ±20%.

Test Equipment and Conditions

- Inductance is measured with AEP-4284A LCR Meter or equivalent.
- Maximum allowable DC current is that which causes a 10% inductance reduction of the initial value, or coil temperature to rise by 40°C,whichever is smaller.(Reference ambient temperature 20°C)
- Excellent solderability and high heat resistance
- Packed in embossed carrier tape and can be used by automatic mounting machine.

EXTERNAL DIMENSIONS

(Unit:mm)



Type	A	B	C	D	E	F	G
AECD75T	7.0±0.3	7.8±0.3	5.0±0.5	1.7Ref.	7.5	3.40	1.5

AECD75T Series

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AECD75T-1R5□S	1.5	100	0.015	5.00
AECD75T-5R6□S	5.6	100	0.025	3.00
AECD75T-7R5□S	7.5	100	0.035	2.90
AECD75T-8R2□S	8.2	100	0.036	2.80
AECD75T-100□S	10	100	0.070	2.30
AECD75T-120□S	12	100	0.080	2.00
AECD75T-150□S	15	100	0.090	1.80
AECD75T-180□S	18	100	0.100	1.60
AECD75T-220□S	22	100	0.110	1.50
AECD75T-270□S	27	100	0.120	1.30
AECD75T-330□S	33	100	0.130	1.20
AECD75T-390□S	39	100	0.160	1.10
AECD75T-470□S	47	100	0.180	1.10
AECD75T-560□S	56	100	0.240	0.94
AECD75T-680□S	68	100	0.280	0.85
AECD75T-820□S	82	100	0.370	0.78
AECD75T-101□S	100	100	0.430	0.72
AECD75T-121□S	120	100	0.47	0.66
AECD75T-151□S	150	100	0.64	0.58
AECD75T-181□S	180	100	0.71	0.51
AECD75T-221□S	220	100	0.96	0.49
AECD75T-271□S	270	100	1.11	0.42
AECD75T-331□S	330	100	1.26	0.40
AECD75T-391□S	390	100	1.77	0.36
AECD75T-471□S	470	100	1.96	0.34

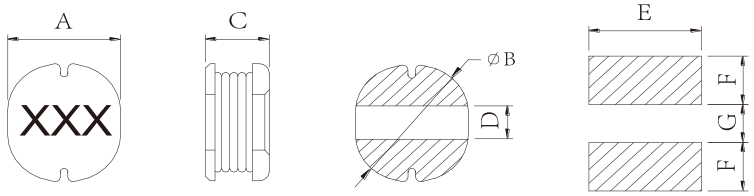
NOTE: □Tolerance value: K = ±10%, L = ±15%,M = ±20%.

Test Equipment and Conditions

- Inductance is measured with AEP-4284A LCR Meter or equivalent.
- Maximum allowable DC current is that which causes a 10% inductance reduction of the initial value, or coil temperature to rise by 40°C,whichever is smaller.(Reference ambient temperature 20°C)
- Excellent solderability and high heat resistance
- Packed in embossed carrier tape and can be used by automatic mounting machine.

EXTERNAL DIMENSIONS

(Unit:mm)



Type	A	B	C	D	E	F	G
AECD104T	9.0±0.3	10.0±0.3	4.0±0.5	2.2Ref.	9.5	4.25	2.0

AECD104T Series

Part Number	Inductance (µAE)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AECD104T-100□S	10	100	0.053	2.38
AECD104T-120□S	12	100	0.061	2.13
AECD104T-150□S	15	100	0.070	1.87
AECD104T-180□S	18	100	0.081	1.73
AECD104T-220□S	22	100	0.088	1.60
AECD104T-270□S	27	100	0.100	1.44
AECD104T-330□S	33	100	0.120	1.26
AECD104T-390□S	39	100	0.151	1.20
AECD104T-470□S	47	100	0.170	1.10
AECD104T-560□S	56	100	0.199	1.01
AECD104T-680□S	68	100	0.223	0.91
AECD104T-820□S	82	100	0.252	0.85
AECD104T-101□S	100	100	0.344	0.74
AECD104T-121□S	120	100	0.396	0.69
AECD104T-151□S	150	100	0.544	0.61
AECD104T-181□S	180	100	0.621	0.56
AECD104T-221□S	220	100	0.721	0.53
AECD104T-271□S	270	100	0.949	0.45
AECD104T-331□S	330	100	1.100	0.42
AECD104T-391□S	390	100	1.245	0.38
AECD104T-471□S	470	100	1.526	0.35
AECD104T-561□S	560	100	1.904	0.32

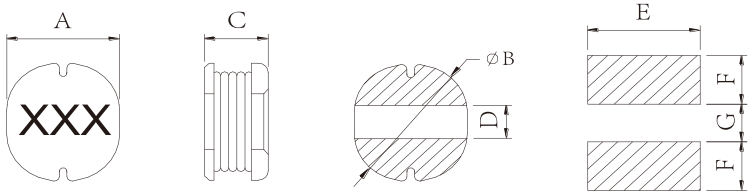
NOTE: □Tolerance value: K = ±10%, L = ±15%,M = ±20%

Test Equipment and Conditions

- Inductance is measured with AEP-4284A LCR Meter or equivalent.
- Maximum allowable DC current is that which causes a 10% inductance reduction of the initial value, or coil temperature to rise by 40℃,whichever is smaller.(Reference ambient temperature 20℃)
- Excellent solderability and high heat resistance
- Packed in embossed carrier tape and can be used by automatic mounting machine.

EXTERNAL DIMENSIONS

(Unit:mm)



Type	A	B	C	D	E	F	G
AECD105T	9.0±0.3	10.0±0.3	5.4±0.5	2.2Ref.	9.5	4.25	2.0

AECD105T Series

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AECD105T-3R3□S	3.3	100	0.018	5.00
AECD105T-3R9□S	3.9	100	0.020	4.00
AECD105T-5R6□S	5.6	100	0.025	3.30
AECD105T-6R8□S	6.8	100	0.035	3.00
AECD105T-8R2□S	8.2	100	0.028	2.80
AECD105T-100□S	10	100	0.060	2.60
AECD105T-120□S	12	100	0.070	2.45
AECD105T-150□S	15	100	0.080	2.27
AECD105T-180□S	18	100	0.090	2.15
AECD105T-220□S	22	100	0.100	1.95
AECD105T-270□S	27	100	0.110	1.76
AECD105T-330□S	33	100	0.120	1.50
AECD105T-390□S	39	100	0.140	1.37
AECD105T-470□S	47	100	0.170	1.28
AECD105T-560□S	56	100	0.190	1.17
AECD105T-680□S	68	100	0.220	1.11
AECD105T-820□S	82	100	0.250	1.00
AECD105T-101□S	100	100	0.350	0.97
AECD105T-121□S	120	100	0.400	0.89
AECD105T-151□S	150	100	0.470	0.78
AECD105T-181□S	180	100	0.630	0.72
AECD105T-221□S	220	100	0.730	0.66
AECD105T-271□S	270	100	0.970	0.57
AECD105T-331□S	330	100	1.150	0.52
AECD105T-391□S	390	100	1.300	0.48
AECD105T-471□S	470	100	1.480	0.42
AECD105T-561□S	560	100	1.900	0.33
AECD105T-681□S	680	100	2.250	0.28
AECD105T-821□S	820	100	2.550	0.24

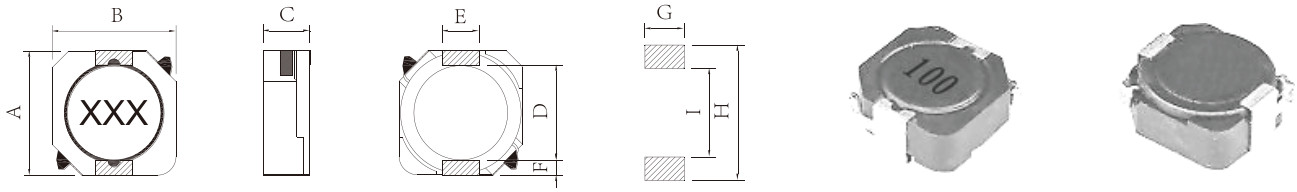
NOTE: □Tolerance value: K = ±10%, L = ±15%,M = ±20%.

Test Equipment and Conditions

- Inductance is measured with AEP-4284A LCR Meter or equivalent.
- Maximum allowable DC current is that which causes a 10% inductance reduction of the initial value, or coil temperature to rise by 40°C,whichever is smaller.(Reference ambient temperature 20°C)
- Excellent solderability and high heat resistance

EXTERNAL DIMENSIONS

(Unit:mm)



Type	A	B	C	D	E	F	G	H	I
AERH104RT	10.1±0.3	10.0±0.3	3.8±0.2	7.7±0.3	3.0±0.1	1.2±0.15	3.2	10.7	7.3

AECD104RT Series

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AERH104RT-1R5-1□S	1.5	100	0.012	7.00
AERH104RT-1R8-1□S	1.8	100	0.013	6.80
AERH104RT-2R5-1□S	2.5	100	0.018	6.30
AERH104RT-2R7-1□S	2.7	100	0.018	6.30
AERH104RT-3R3-1□S	3.3	100	0.023	6.00
AERH104RT-3R8-1□S	3.8	100	0.025	6.00
AERH104RT-4R7-1□S	4.7	100	0.028	6.00
AERH104RT-5R2-1□S	5.2	100	0.030	5.00
AERH104RT-6R8-1□S	6.8	100	0.032	5.00
AERH104RT-100-1□S	10	100	0.050	4.40
AERH104RT-120-1□S	12	100	0.050	4.20
AERH104RT-150-1□S	15	100	0.070	3.60
AERH104RT-180-1□S	18	100	0.080	3.30
AERH104RT-220-1□S	22	100	0.100	2.90
AERH104RT-270-1□S	27	100	0.130	2.60
AERH104RT-330-1□S	33	100	0.150	2.30
AERH104RT-390-1□S	39	100	0.185	2.20
AERH104RT-470-1□S	47	100	0.185	2.10
AERH104RT-680-1□S	68	100	0.310	1.50
AERH104RT-820-1□S	82	100	0.261	1.40
AERH104RT-101-1□S	100	100	0.410	1.35
AERH104RT-151-1□S	150	100	0.560	1.15
AERH104RT-201-1□S	200	100	0.950	0.92
AERH104RT-221-1□S	220	100	0.870	0.90
AERH104RT-251-1□S	250	100	1.050	0.80
AERH104RT-331-1□S	330	100	1.250	0.70
AERH104RT-471-1□S	470	100	1.650	0.50
AERH104RT-681-1□S	680	100	3.100	0.30
AERH104RT-102-1□S	1000	100	5.500	0.20

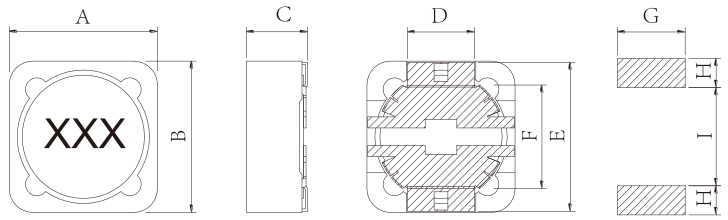
NOTE: □Tolerance value : K = ±10%, M = ±20%, N = ±30%.

Test Equipment and Conditions

- Inductance is measured with AEP-4284A LCR meter or equivalent.
- 1. Maximum allowable DC current is that which causes a 25% inductance reduction of the initial value, or coil temperature to rise by 40°C,whichever is smaller.(Reference ambient temperature 20°C)
- Operating temperature: -25°C～+85°C.

EXTERNAL DIMENSIONS

(Unit:mm)



Type	A	B	C	D	E	F	G	H	I
AECD124RT	12.0±0.3	12.0±0.3	4.1 ±0.3	4.9±0.1	12±0.1	7.9±0.1	5.4	2.6	7.4

AERH124RT Series

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AERH124RT-2R2□S	2.2	100	0.008	7.00
AERH124RT-2R7□S	2.7	100	0.012	6.70
AERH124RT-3R3□S	3.3	100	0.015	6.50
AERH124RT-3R5□S	3.5	100	0.015	6.40
AERH124RT-3R9□S	3.9	100	0.015	6.00
AERH124RT-4R7□S	4.7	100	0.018	5.60
AERH124RT-5R6□S	5.6	100	0.018	5.20
AERH124RT-6R8□S	6.8	100	0.022	4.90
AERH124RT-7R6□S	7.6	100	0.026	4.70
AERH124RT-8R2□S	8.2	100	0.026	4.50
AERH124RT-100□S	10	100	0.028	4.20
AERH124RT-120□S	12	100	0.038	3.80
AERH124RT-150□S	15	100	0.050	3.20
AERH124RT-180□S	18	100	0.057	3.10
AERH124RT-220□S	22	100	0.066	2.90
AERH124RT-270□S	27	100	0.080	2.60
AERH124RT-330□S	33	100	0.097	2.30
AERH124RT-390□S	39	100	0.132	2.10
AERH124RT-470□S	47	100	0.150	1.90
AERH124RT-560□S	56	100	0.180	1.70
AERH124RT-680□S	68	100	0.220	1.50
AERH124RT-820□S	82	100	0.260	1.30
AERH124RT-101□S	100	100	0.308	1.20
AERH124RT-121□S	120	100	0.380	1.10
AERH124RT-151□S	150	100	0.530	0.95
AERH124RT-181□S	180	100	0.620	0.85
AERH124RT-221□S	220	100	0.700	0.80
AERH124RT-271□S	270	100	0.875	0.60
AERH124RT-331□S	330	100	0.990	0.50

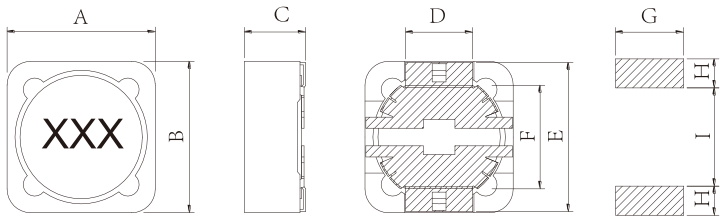
NOTE: □Tolerance value : K = ±10%, M = ±20%. N = ±30%.

Test Equipment and Conditions

- Inductance is measured with AEP-4284A LCR meter or equivalent.
- Maximum allowable DC current is that which causes a 25% inductance reduction of the initial value, or coil temperature to rise by 40°C,whichever is smaller.(Reference ambient temperature 20°C)
- Operating temperature : –25°C~ +85°C.

EXTERNAL DIMENSIONS

(Unit:mm)



Type	A	B	C	D	E	F	G	H	I
AERH125RT	12.0±0.3	12.0±0.3	5.6±0.3	4.9±0.1	12±0.1	7.9±0.1	5.4	2.6	7.4

AECD125RT Series

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AERH125RT-1R8□S	1.8	10	0.005	7.50
AERH125RT-2R2□S	2.2	10	0.007	7.00
AERH125RT-2R5□S	2.5	10	0.007	6.40
AERH125RT-2R7□S	2.7	10	0.007	6.40
AERH125RT-3R1□S	3.1	10	0.007	6.40
AERH125RT-3R9□S	3.9	10	0.009	5.90
AERH125RT-4R7□S	4.7	10	0.012	5.30
AERH125RT-6R1□S	6.1	10	0.013	4.80
AERH125RT-6R8□S	6.8	10	0.014	4.70
AERH125RT-7R5□S	7.5	10	0.017	4.50
AERH125RT-7R6□S	7.6	10	0.017	4.50
AERH125RT-8R2□S	8.2	10	0.020	4.30
AERH125RT-100□S	10	10	0.025	4.00
AERH125RT-120□S	12	10	0.027	3.50
AERH125RT-150□S	15	10	0.030	3.30
AERH125RT-180□S	18	10	0.034	3.00
AERH125RT-220□S	22	10	0.036	2.80
AERH125RT-270□S	27	10	0.051	2.30
AERH125RT-330□S	33	10	0.057	2.10
AERH125RT-390□S	39	10	0.068	2.00
AERH125RT-470□S	47	10	0.075	1.80
AERH125RT-560□S	56	10	0.110	1.70
AERH125RT-680□S	68	10	0.120	1.50
AERH125RT-820□S	82	10	0.140	1.40

NOTE: □Tolerance value : K = ±10%, M = ±20%. N = ±30%.

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AERH125RT-101□S	100	10	0.160	1.30
AERH125RT-121□S	120	10	0.200	1.10
AERH125RT-131□S	130	10	0.210	1.50
AERH125RT-151□S	150	10	0.230	1.00
AERH125RT-181□S	180	10	0.290	0.90
AERH125RT-221□S	220	10	0.450	0.80
AERH125RT-271□S	270	10	0.500	0.75
AERH125RT-331□S	330	10	0.590	0.68
AERH125RT-391□S	390	10	0.690	0.65
AERH125RT-471□S	470	10	0.770	0.58
AERH125RT-561□S	560	10	0.860	0.54
AERH125RT-681□S	680	10	1.200	0.48
AERH125RT-821□S	820	10	1.340	0.43
AERH125RT-102□S	1000	10	1.530	0.40

NOTE: □Tolerance value : K = ±10%, M = ±20%. N = ±30%.

Test Equipment and Conditions

- Inductance is measured with AEP-4284A LCR meter or equivalent.
- Maximum allowable DC current is that which causes a 25% inductance reduction of the initial value, or coil temperature to rise by 40°C,whichever is smaller.(Reference ambient temperature 20°C)
- Operating temperature : –25°C~ +85°C.

Features

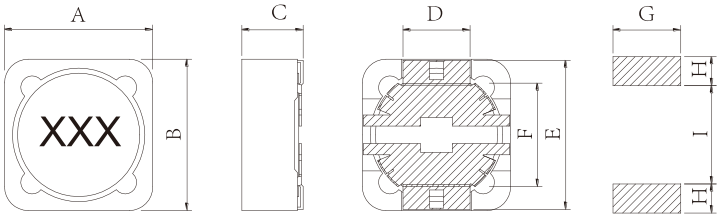
- Magnetic Shielded surface mount inductor with high current rating.
- Low resistance to keep power loss minimum.

Applications

- Excellent for power line DC-DC conversion application used in hard disk, notebook computers and other electronic equipment.

EXTERNAL DIMENSIONS

(Unit:mm)



Type	A	B	C	D	E	F	G	H	I
AERH127RT	12.0±0.3	12.0±0.3	7.5±0.5	4.9±0.1	12±0.1	7.9±0.1	5.4	2.6	7.4

AERH127RT Series

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AERH127RT-1R2□S	1.2	10	7.0m	9.8
AERH127RT-1R8□S	1.8	10	11.5m	8.0
AERH127RT-3R3□S	3.3	10	13.5m	7.5
AERH127RT-4R4□S	4.4	10	13.0m	7.0
AERH127RT-4R7□S	4.7	10	15.8m	6.8
AERH127RT-6R1□S	6.1	10	17.6m	6.6
AERH127RT-7R6□S	7.6	10	20.0m	5.9
AERH127RT-100□S	10	10	21.6m	5.4
AERH127RT-120□S	12	10	24.3m	4.9
AERH127RT-150□S	15	10	27.0m	4.5
AERH127RT-180□S	18	10	39.2m	3.90
AERH127RT-220□S	22	10	43.2m	3.60
AERH127RT-270□S	27	10	45.9m	3.40
AERH127RT-330□S	33	10	64.8m	3.00
AERH127RT-390□S	39	10	72.9m	2.75
AERH127RT-470□S	47	10	77.0m	2.50
AERH127RT-560□S	56	10	97.0m	2.35
AERH127RT-680□S	68	10	0.10	2.10
AERH127RT-820□S	82	10	0.12	1.95
AERH127RT-101□S	100	10	0.15	1.70
AERH127RT-121□S	120	10	0.17	1.60
AERH127RT-151□S	150	10	0.19	1.42
AERH127RT-181□S	180	10	0.25	1.30

NOTE: □Tolerance value : K = ±10%, M = ±20%. N = ±30%.

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AERH127RT-221□S	220	10	0.35	1.16
AERH127RT-271□S	270	10	0.39	1.06
AERH127RT-331□S	330	10	0.48	0.95
AERH127RT-391□S	390	10	0.54	0.88
AERH127RT-471□S	470	10	0.79	0.79
AERH127RT-561□S	560	10	0.87	0.73
AERH127RT-681□S	680	10	1.00	0.67
AERH127RT-821□S	820	10	1.20	0.60
AERH127RT-102□S	1000	10	1.30	0.55

NOTE: □Tolerance value : K = ±10%, M = ±20%. N = ±30%.

Test Equipment and Conditions

- Inductance is measured with AEP-4284A LCR meter or equivalent.
- Maximum allowable DC current is that which causes a 25% inductance reduction of the initial value, or coil temperature to rise by 40°C,whichever is smaller.(Reference ambient temperature 20°C)
- Operating temperature : –25°C~ +85°C.

Features

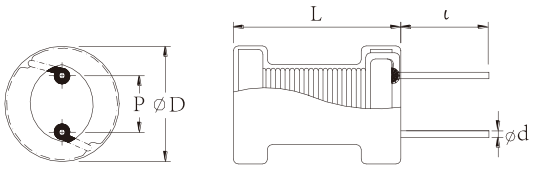
- Magnetic Shielded surface mount inductor with high current rating.
- Low resistance to keep power loss minimum.

Applications

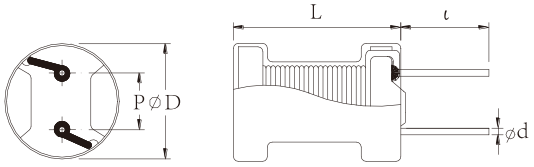
- Excellent for power line DC-DC conversion application used in hard disk, notebook computers and other electronic equipment.

EXTERNAL DIMENSIONS

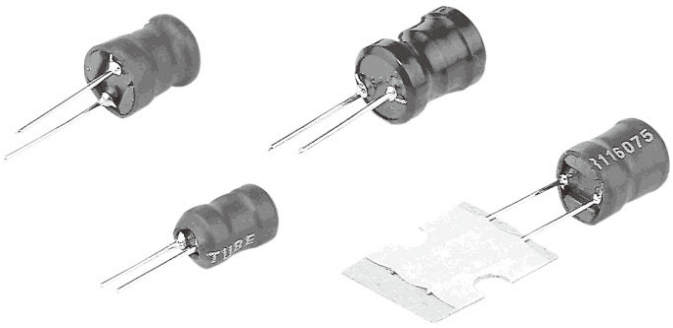
(Unit: m/m)



(Fig. 1)



(Fig. 2)



Type	L(Max.)	ΦD Max.	ι± 2		Φd ± 0.05	P ± 0.5	Fig No.
			Bulk	Taping			
AEDR268	6.0±1.5	8.5±1.5	15Min.	25±1.5	0.65	3	1

AEDR268- Series

Part Number	Inductance L @ 1KHz (μH)	Q Min.	Self-Resonant Frequency (MHz)Min.	DC Resistance (Ω)Max.	Rated DC Current (mA)Max.
AEDR268-6R8□US	6.8	30 @ 2.52MHz	25	0.022	1200
AEDR268-8R2□US	8.2	30 @ 2.52MHz	25	0.035	1200
AEDR268-100□US	10	30 @ 2.52MHz	25	0.038	550
AEDR268-120□US	12	30 @ 2.52MHz	20	0.044	530
AEDR268-150□US	15	30 @ 2.52MHz	18	0.050	500
AEDR268-180□US	18	30 @ 2.52MHz	17	0.058	480
AEDR268-200□US	20	30 @ 2.52MHz	15	0.065	470
AEDR268-220□US	22	30 @ 2.52MHz	14	0.066	460
AEDR268-270□US	27	25 @ 2.52MHz	13	0.072	430
AEDR268-330□US	33	30 @ 2.52MHz	12	0.10	410
AEDR268-390□US	39	25 @ 2.52MHz	11	0.11	390
AEDR268-470□US	47	25 @ 2.52MHz	10	0.16	370
AEDR268-560□US	56	25 @ 2.52MHz	9.9	0.17	350
AEDR268-680□US	68	25 @ 2.52MHz	8.3	0.20	340
AEDR268-820□US	82	25 @ 2.52MHz	7.8	0.24	320
AEDR268-101□US	100	30 @ 0.796MHz	6.8	0.30	310
AEDR268-121□US	120	30 @ 0.796MHz	5.8	0.36	290
AEDR268-151□US	150	30 @ 0.796MHz	5.0	0.48	280
AEDR268-181□US	180	30 @ 0.796MHz	4.9	0.50	190
AEDR268-221□US	220	30 @ 0.796MHz	4.3	0.70	180
AEDR268-271□US	270	30 @ 0.796MHz	3.8	0.80	170
AEDR268-331□US	330	25 @ 0.796MHz	3.5	0.90	160
AEDR268-391□US	390	30 @ 0.796MHz	3.3	1.1	150
AEDR268-471□US	470	30 @ 0.796MHz	2.9	1.3	140
AEDR268-561□US	560	20 @ 0.796MHz	2.8	1.5	140

NOTE: □Tolerance value : K = ±10%, M = ±20%. N = ±30%.

Part Number	Inductance L @ 1KHz (µH)	Q Min.	Self-Resonant Frequency (MHz)Min.	DC Resistance (Ω)Max.	Rated DC Current (mA)Max.
AEDR268-681□US	680	20 @ 0.796MHz	2.6	1.9	130
AEDR268-821□US	820	20 @ 0.796MHz	2.5	2.1	120
AEDR268-102□US	1000	70 @ 252KHz	2.2	2.5	110
AEDR268-122□US	1200	90 @ 252KHz	1.9	4.0	100
AEDR268-152□US	1500	90 @ 252KHz	1.8	4.8	90
AEDR268-182□US	1800	90 @ 252KHz	1.6	5.4	85
AEDR268-222□US	2200	90 @ 252KHz	1.4	8.4	80
AEDR268-272□US	2700	90 @ 252KHz	1.2	9.8	75
AEDR268-302□US	3000	90 @ 252KHz	1.0	11	72
AEDR268-332□US	3300	90 @ 252KHz	0.85	13	60
AEDR268-392□US	3900	90 @ 252KHz	0.80	14	60
AEDR268-472□US	4700	90 @ 252KHz	0.77	16	60
AEDR268-562□US	5600	90 @ 252KHz	0.65	18	50
AEDR268-682□US	6800	90 @ 252KHz	0.57	20	50
AEDR268-822□US	8200	90 @ 252KHz	0.53	29	40
AEDR268-103□US	10000	80 @ 252KHz	0.48	33	40
AEDR268-123□US	12000	80 @ 252KHz	0.45	36	40
AEDR268-153□US	15000	80 @ 252KHz	0.38	48	30
AEDR268-183□US	18000	80 @ 252KHz	0.33	55	30
AEDR268-223□US	22000	80 @ 79.6KHz	0.31	85	25
AEDR268-273□US	27000	80 @ 79.6KHz	0.30	100	25
AEDR268-333□US	33000	80 @ 79.6KHz	0.26	112	20
AEDR268-363□US	36000	80 @ 79.6KHz	0.25	117	20

NOTE: □Tolerance value : K = ±10%, M = ±20%. N = ±30%.

Test Equipment

- Inductance & Q are measured with AEP-4284A or equiv.
- SRF is measured with ML-2770 or equiv.
- DCR is measured with CH-502A or equiv.
- Rated DC current is measured with AEP-

42841A or equiv.

Characteristics

- Inductance tolerance……±10%(Standard)
- Temperature rating……...-25°Cto +85°C
- Rated current…….……... Inductance drop by 10%
- Terminal tensile strength…….….1.0 Kg min.
- Terminal bending strength……0.3 Kg min

Features

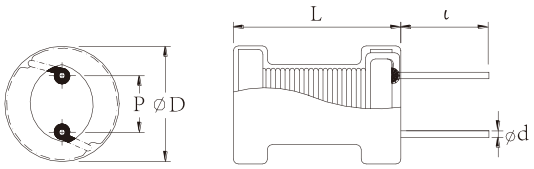
- Ideal as a choke coil for noise filtering and DC to DC converter application.
- Covered with PVC or UL shrink tubing

Applications

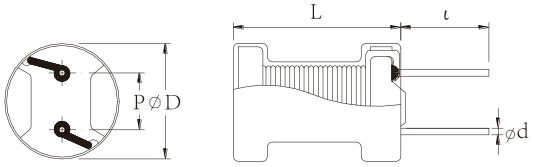
- TV and Audio equipment
- Buzzers and Alarm systems
- Switching power supplies
- Other noise filters.

EXTERNAL DIMENSIONS

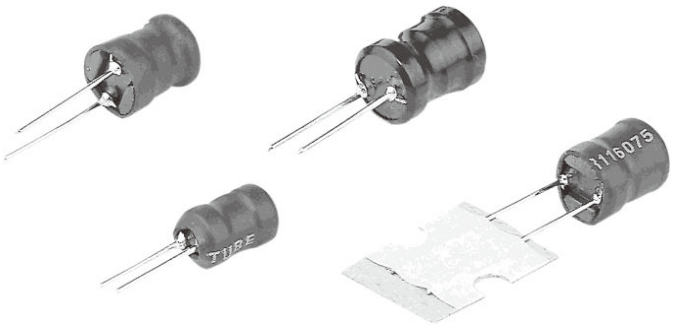
(Unit: m/m)



(Fig. 1)



(Fig. 2)



Type	L(Max.)	ΦD Max.	ι± 2		Φd ± 0.05	P ± 0.5	Fig No.
			Bulk	Taping			
AEDR27599	8.0±1.5	9.5±1.5	15	25	0.65	5	2

Part Number	Inductance L @ 100KHz (µH)	Self-Resonant Frequency (MHz) Min.	DC Resistance (Ω) Max.	Rated DC Current (A) Max.	Saturation DC Current (A) Max.
AEDR27599-1R0□US	1.0	150	0.013	3.71	10.00
AEDR27599-1R5□US	1.5	130	0.016	3.32	8.50
AEDR27599-2R2□US	2.2	100	0.021	3.15	6.50
AEDR27599-3R3□US	3.3	79	0.025	2.66	5.50
AEDR27599-4R7□US	4.7	51	0.030	2.27	4.30
AEDR27599-6R8□US	6.8	29	0.035	2.10	3.70
AEDR27599-100□US	10.0	14	0.045	1.96	3.00
AEDR27599-120□US	12.0	13	0.050	1.82	2.60
AEDR27599-150□US	15.0	12	0.056	1.75	2.30
AEDR27599-180□US	18.0	11	0.061	1.54	2.20
AEDR27599-220□US	22.0	9.2	0.070	1.29	2.00
AEDR27599-270□US	27.0	8.5	0.080	1.22	1.70
AEDR27599-330□US	33.0	7.8	0.090	1.17	1.60
AEDR27599-390□US	39.0	6.9	0.10	1.14	1.50
AEDR27599-470□US	47.0	6.5	0.17	0.79	1.40
AEDR27599-560□US	56.0	5.4	0.20	0.76	1.30
AEDR27599-680□US	68.0	4.9	0.22	0.70	1.20
AEDR27599-820□US	82.0	4.1	0.25	0.67	1.10
AEDR27599-101□US	100.0	3.7	0.28	0.58	0.91
AEDR27599-121□US	120.0	3.4	0.32	0.56	0.84

NOTE: □Tolerance value : K = ±10%, M = ±20%. N = ±30%.

Part Number	Inductance L @ 100KHz (µH)	Self-Resonant Frequency (MHz) Min.	DC Resistance (Ω) Max.	Rated DC Current (A) Max.	Saturation DC Current (A) Max.
AEDR27599-151□US	150.0	3.2	0.54	0.42	0.75
AEDR27599-181□US	180.0	2.8	0.60	0.40	0.69
AEDR27599-221□US	220.0	2.7	0.68	0.38	0.64
AEDR27599-271□US	270.0	2.4	0.80	0.35	0.57
AEDR27599-331□US	330.0	2.3	0.90	0.33	0.54
AEDR27599-391□US	390.0	2.1	1.20	0.28	0.48
AEDR27599-471□US	470.0	1.9	1.37	0.25	0.46
AEDR27599-561□US	560.0	1.8	1.53	0.23	0.41
AEDR27599-681□US	680.0	1.6	2.00	0.21	0.38
AEDR27599-821□US	820.0	1.5	2.70	0.18	0.35
AEDR27599-102□US	1000.0	1.3	2.96	0.16	0.29

NOTE: □Tolerance value : K = ±10%, M = ±20%. N = ±30%.

Test Equipment

- Inductance & Q are measured with AEP-4284A or equiv.
- SRF is measured with ML-2770 or equiv.
- DCR is measured with CH-502A or equiv.
- Rated DC current is measured with AEP-42841A or equiv.

Characteristics

- Inductance tolerance……±10%(Standard)
- Temperature rating……...-25°Cto +85°C
- Rated current…….……... Inductance drop by 10%
- Terminal tensile strength…….….1.0 Kg min.
- Terminal bending strength……0.3 Kg min

Features

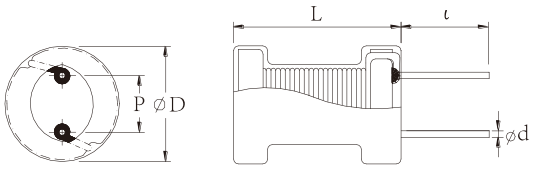
- Ideal as a choke coil for noise filtering and DC to DC converter application.
- Covered with PVC or UL shrink tubing

Applications

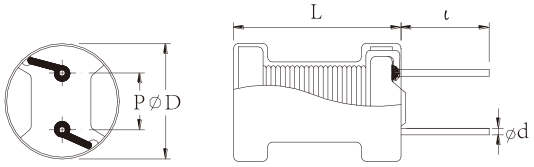
- TV and Audio equipment
- Buzzers and Alarm systems
- Switching power supplies
- Other noise filters.

(Unit: m/m)

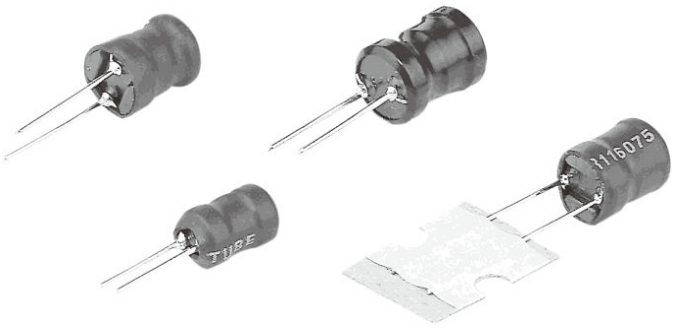
EXTERNAL DIMENSIONS



(Fig. 1)



(Fig. 2)



Type	L(Max.)	ΦD Max.	ι± 2		Φd ± 0.05	P ± 0.5	Fig No.
			Bulk	Taping			
AEDR285	8.0±1.5	6.0±1.5	15Min.	25	0.65	5	1

Part Number	Inductance L @ 1KHz (μH)	Q Min.	Self-Resonant Frequency (MHz)Min.	DC Resistance (Ω)Max.	Rated DC Current (mA)Max.
AEDR285-1R0□US	1.0	15 @ 7.96MHz	105	0.022	800
AEDR285-1R2□US	1.2	15 @ 7.96MHz	100	0.023	790
AEDR285-1R5□US	1.5	15 @ 7.96MHz	90	0.026	780
AEDR285-1R8□US	1.8	15 @ 7.96MHz	80	0.028	770
AEDR285-2R2□US	2.2	15 @ 7.96MHz	77	0.030	760
AEDR285-2R7□US	2.7	15 @ 7.96MHz	52	0.034	750
AEDR285-3R3□US	3.3	15 @ 7.96MHz	45	0.037	740
AEDR285-3R9□US	3.9	15 @ 7.96MHz	45	0.038	730
AEDR285-4R7□US	4.7	15 @ 7.96MHz	32	0.042	720
AEDR285-5R6□US	5.6	15 @ 7.96MHz	28	0.047	710
AEDR285-6R8□US	6.8	15 @ 7.96MHz	25	0.052	700
AEDR285-8R2□US	8.2	15 @ 7.96MHz	24	0.060	690
AEDR285-100□US	10	20 @ 2.52MHz	20	0.067	680
AEDR285-120□US	12	20 @ 2.52MHz	20	0.072	670
AEDR285-150□US	15	20 @ 2.52MHz	18	0.082	660
AEDR285-180□US	18	20 @ 2.52MHz	15	0.085	650
AEDR285-220□US	22	20 @ 2.52MHz	13	0.105	640
AEDR285-270□US	27	20 @ 2.52MHz	12	0.118	630
AEDR285-330□US	33	20 @ 2.52MHz	10	0.132	620
AEDR285-390□US	39	20 @ 2.52MHz	10	0.195	500

NOTE: □Tolerance value : K = ±10%, M = ±20%. N = ±30%.

Part Number	Inductance L @ 1KHz (μH)	Q Min.	Self-Resonant Frequency (MHz)Min.	DC Resistance (Ω)Max.	Rated DC Current (mA)Max.
AEDR285-470□US	47	20 @ 2.52MHz	7.5	0.215	450
AEDR285-560□US	56	20 @ 2.52MHz	7.5	0.230	430
AEDR285-680□US	68	20 @ 2.52MHz	7.0	0.265	410
AEDR285-820□US	82	20 @ 2.52MHz	6.5	0.330	390
AEDR285-101□US	100	20 @ 0.796MHz	6.0	0.350	370
AEDR285-121□US	120	20 @ 0.796MHz	5.0	0.525	320
AEDR285-151□US	150	20 @ 0.796MHz	4.5	0.600	300
AEDR285-181□US	180	20 @ 0.796MHz	4.0	0.725	280
AEDR285-221□US	220	20 @ 0.796MHz	4.0	0.990	260
AEDR285-271□US	270	20 @ 0.796MHz	3.8	1.280	200
AEDR285-331□US	330	20 @ 0.796MHz	3.5	1.450	180
AEDR285-391□US	390	20 @ 0.796MHz	3.3	1.700	170
AEDR285-471□US	470	20 @ 0.796MHz	3.3	2.750	160
AEDR285-561□US	560	20 @ 0.796MHz	2.6	3.000	150
AEDR285-681□US	680	20 @ 0.796MHz	2.4	3.300	140

Test Equipment

- Inductance & Q are measured with AEP-4284A or equiv.
- SRF is measured with ML-2770 or equiv.
- DCR is measured with CH-502A or equiv.
- Rated DC current is measured with AEP-42841A or equiv.

Characteristics

- Inductance tolerance……±10%(Standard)
- Temperature rating……...-25°Cto +85°C
- Rated current…….…….. Inductance drop by 10%
- Terminal tensile strength…….….1.0 Kg min.
- Terminal bending strength……0.3 Kg min

Features

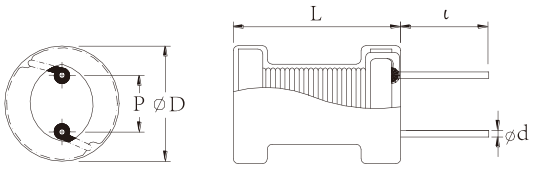
- Ideal as a choke coil for noise filtering and DC to DC converter application.
- Covered with PVC or UL shrink tubing

Applications

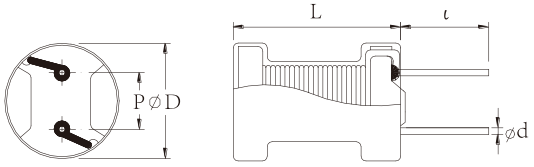
- TV and Audio equipment
- Buzzers and Alarm systems
- Switching power supplies
- Other noise filters.

(Unit: m/m)

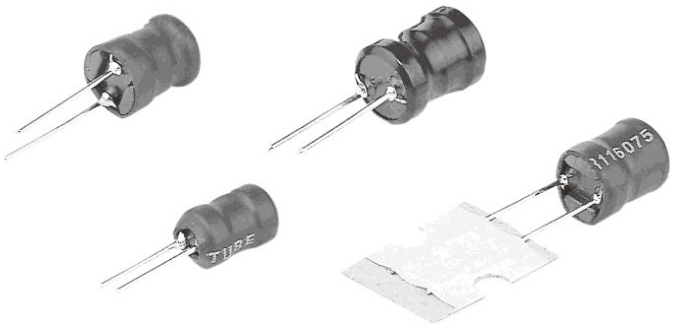
EXTERNAL DIMENSIONS



(Fig. 1)



(Fig. 2)



Type	L(Max.)	ΦD Max.	ι± 2		Φd ± 0.05	P ± 0.5	Fig No.
			Bulk	Taping			
AEDR2810	8.5±1.5	10.0±2.0	15±1.5	25±1.5	0.65	5	1

Part Number	Inductance L @ 1KHz (μH)	Q Min.	Self-Resonant Frequency (MHz)Min.	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AEDR2810-100□US	10	40 @ 2.52MHz	14	0.030	3.000
AEDR2810-120□US	12	40 @ 2.52MHz	13	0.033	2.600
AEDR2810-150□US	15	40 @ 2.52MHz	12	0.040	2.300
AEDR2810-180□US	18	40 @ 2.52MHz	11	0.044	2.200
AEDR2810-220□US	22	40 @ 2.52MHz	9.20	0.056	2.000
AEDR2810-270□US	27	40 @ 2.52MHz	8.50	0.077	1.700
AEDR2810-330□US	33	30 @ 2.52MHz	7.80	0.087	1.600
AEDR2810-390□US	39	30 @ 2.52MHz	6.90	0.098	1.500
AEDR2810-470□US	47	30 @ 2.52MHz	6.50	0.110	1.400
AEDR2810-560□US	56	30 @ 2.52MHz	5.40	0.130	1.300
AEDR2810-680□US	68	30 @ 2.52MHz	4.90	0.140	1.200
AEDR2810-820□US	82	30 @ 2.52MHz	4.10	0.190	1.100
AEDR2810-101□US	100	20 @ 796KHz	3.70	0.230	0.910
AEDR2810-121□US	120	20 @ 796KHz	3.40	0.300	0.840
AEDR2810-151□US	150	20 @ 796KHz	3.20	0.350	0.750
AEDR2810-181□US	180	20 @ 796KHz	2.80	0.390	0.690
AEDR2810-221□US	220	20 @ 796KHz	2.70	0.490	0.640
AEDR2810-271□US	270	20 @ 796KHz	2.40	0.590	0.570
AEDR2810-331□US	330	20 @ 796KHz	2.30	0.790	0.540
AEDR2810-391□US	390	20 @ 796KHz	2.10	0.870	0.480
AEDR2810-471□US	470	20 @ 796KHz	1.90	0.950	0.460
AEDR2810-561□US	560	20 @ 796KHz	1.80	1.200	0.410
AEDR2810-681□US	680	20 @ 796KHz	1.60	1.600	0.380

NOTE: □Tolerance value : K = ±10%, M = ±20%. N = ±30%.

Part Number	Inductance L @ 1KHz (µH)	Q Min.	Self-Resonant Frequency (MHz)Min.	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AEDR2810-821□US	820	20 @ 796KHz	1.50	1.800	0.350
AEDR2810-102□US	1000	40 @ 252KHz	1.30	2.900	0.290
AEDR2810-122□US	1200	60 @ 252KHz	1.20	2.500	0.280.
AEDR2810-152□US	1500	60 @ 252KHz	1.12	2.700	0.250.
AEDR2810-182□US	1800	60 @ 252KHz	1.00	3.200	0.230
AEDR2810-222□US	2200	60 @ 252KHz	0.97	3.500	0.200
AEDR2810-252□US	2500	60 @ 252KHz	0.90	4.000	0.180
AEDR2810-272□US	2700	60 @ 252KHz	0.80	4.800	0.170
AEDR2810-332□US	3300	60 @ 252KHz	0.72	5.400	0.160
AEDR2810-392□US	3900	60 @ 252KHz	0.65	6.000	0.150
AEDR2810-472□US	4700	60 @ 252KHz	0.64	9.000	0.140
AEDR2810-532□US	5300	60 @ 252KHz	0.58	9.500	0.130
AEDR2810-562□US	5600	60 @ 252KHz	0.55	10	0.120
AEDR2810-682□US	6800	60 @ 252KHz	0.47	13	0.100
AEDR2810-822□US	8200	60 @ 252KHz	0.44	15	0.095
AEDR2810-103□US	10000	90 @ 79.6KHz	0.40	17	0.070
AEDR2810-123□US	12000	90 @ 79.6KHz	0.38	19	0.060
AEDR2810-153□US	15000	90 @ 79.6KHz	0.32	28	0.050
AEDR2810-183□US	18000	90 @ 79.6KHz	0.28	31	0.045
AEDR2810-223□US	22000	90 @ 79.6KHz	0.26	36	0.030
AEDR2810-273□US	27000	90 @ 79.6KHz	0.24	42	0.027
AEDR2810-303□US	30000	90 @ 79.6KHz	0.23	54	0.020
AEDR2810-333□US	33000	90 @ 79.6KHz	0.22	56	0.015
AEDR2810-393□US	39000	50 @ 79.6KHz	0.18	87	0.010
AEDR2810-473□US	47000	50 @ 79.6KHz	0.16	100	0.008

NOTE: □Tolerance value : K = ±10%, M = ±20%. N = ±30%.

Test Equipment

- Inductance & Q are measured with AEP-4284A or equiv.
- SRF is measured with ML-2770 or equiv.
- DCR is measured with CH-502A or equiv.
- Rated DC current is measured with AEP-42841A or equiv.

Characteristics

- Inductance tolerance……±10%(Standard)
- Temperature rating……...-25°Cto +85°C
- Rated current…….…….. Inductance drop by 10%
- Terminal tensile strength…….….1.0 Kg min.
- Terminal bending strength……0.3 Kg min

Features

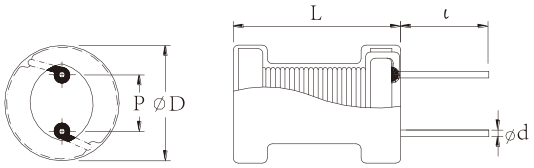
- Ideal as a choke coil for noise filtering and DC to DC converter application.
- Covered with PVC or UL shrink tubing

Applications

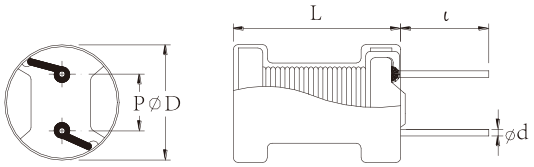
- TV and Audio equipment
- Buzzers and Alarm systems
- Switching power supplies
- Other noise filters.

(Unit: m/m)

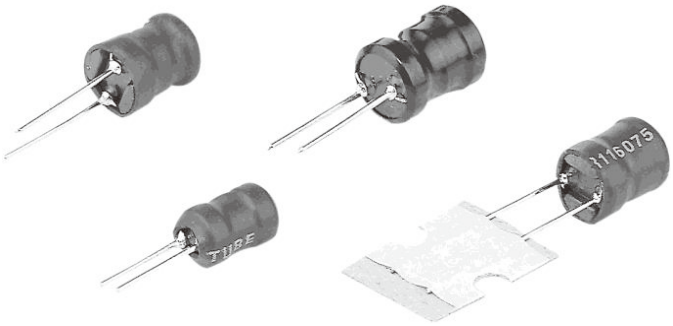
EXTERNAL DIMENSIONS



(Fig. 1)



(Fig. 2)



Type	L(Max.)	ΦD Max.	ι± 2		Φd ± 0.05	P ± 0.5	Fig No.
			Bulk	Taping			
AEDR2912	9.5±1.5	13.0±2.0	15	25	0.80	5	1

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AEDR2912-100□US	10	1	0.04	3.10
AEDR2912-120□US	12	1	0.04	2.90
AEDR2912-150□US	15	1	0.05	2.60
AEDR2912-180□US	18	1	0.06	2.40
AEDR2912-220□US	22	1	0.07	2.20
AEDR2912-270□US	27	1	0.10	2.00
AEDR2912-330□US	33	1	0.12	1.80
AEDR2912-390□US	39	1	0.12	1.60
AEDR2912-470□US	47	1	0.13	1.50
AEDR2912-560□US	56	1	0.14	1.40
AEDR2912-680□US	68	1	0.15	1.30
AEDR2912-820□US	82	1	0.16	1.20
AEDR2912-101□US	100	1	0.25	1.00
AEDR2912-121□US	120	1	0.28	0.90
AEDR2912-151□US	150	1	0.32	0.80
AEDR2912-181□US	180	1	0.47	0.75
AEDR2912-221□US	220	1	0.53	0.70
AEDR2912-271□US	270	1	0.60	0.65
AEDR2912-331□US	330	1	0.85	0.58
AEDR2912-391□US	390	1	0.95	0.55
AEDR2912-471□US	470	1	1.1	0.50
AEDR2912-561□US	560	1	1.2	0.43
AEDR2912-681□US	680	1	1.3	0.40
AEDR2912-821□US	820	1	1.4	0.37
AEDR2912-102□US	1000	1	2.0	0.29

NOTE: □Tolerance value : K = ±10%, M = ±20%. N = ±30%.

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max.
AEDR2912-122□US	1200	1	2.3	0.28
AEDR2912-152□US	1500	1	2.9	0.27
AEDR2912-182□US	1800	1	3.3	0.25
AEDR2912-222□US	2200	1	4.5	0.23
AEDR2912-272□US	2700	1	5.5	0.20
AEDR2912-332□US	3300	1	5.7	0.17
AEDR2912-392□US	3900	1	6.5	0.16
AEDR2912-472□US	4700	1	7.2	0.15
AEDR2912-562□US	5600	1	9.5	0.14
AEDR2912-682□US	6800	1	11	0.12
AEDR2912-822□US	8200	1	13	0.10
AEDR2912-103□US	10000	1	16	0.08
AEDR2912-123□US	12000	1	18	0.07
AEDR2912-153□US	15000	1	21	0.06
AEDR2912-183□US	18000	1	23	0.05
AEDR2912-223□US	22000	1	33	0.04
AEDR2912-273□US	27000	1	37	0.038
AEDR2912-333□US	33000	1	42	0.035
AEDR2912-393□US	39000	1	45	0.032
AEDR2912-473□US	47000	1	52	0.030
AEDR2912-563□US	56000	1	64	0.028
AEDR2912-683□US	68000	1	82	0.025
AEDR2912-823□US	82000	1	115	0.023
AEDR2912-104□US	100000	1	123	0.020

NOTE: □Tolerance value : K = ±10%, M = ±20%. N = ±30%.

Test Equipment

- Inductance & Q are measured with AEP-4284A or equiv.
- SRF is measured with ML-2770 or equiv.
- DCR is measured with CH-502A or equiv.
- Rated DC current is measured with AEP-42841A or equiv.

Characteristics

- Inductance tolerance……±10%(Standard)
- Temperature rating……...-25°Cto +85°C
- Rated current…….……... Inductance drop by 10%
- Terminal tensile strength…….….1.0 Kg min.
- Terminal bending strength……0.3 Kg min

Features

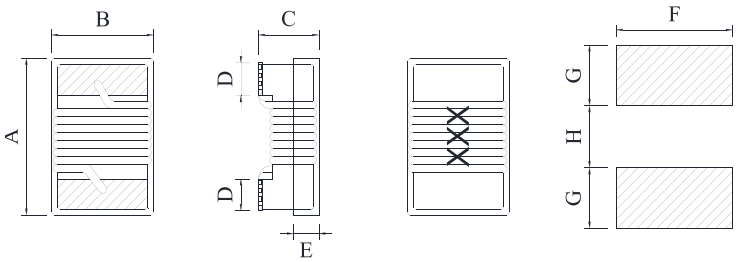
- Ideal as a choke coil for noise filtering and DC to DC converter application.
- Covered with PVC or UL shrink tubing

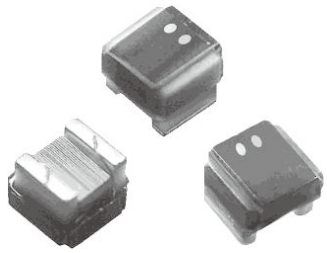
Applications

- TV and Audio equipment
- Buzzers and Alarm systems
- Switching power supplies
- Other noise filters.

EXTERNAL DIMENSIONS

(Unit: mm)





Type	A	B	C	D	E	F	G	H
AEWI0402ST	1.2±0.2	0.66±0.2	0.6±0.2	0.20±0.1	0.2Ref.	0.52	0.35	0.35

AEWI0402ST Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated DC Current (mA)Max.
AEWI0402ST-1N8□S	1.8 @ 250MHz	K,J	20	>6000	0.043	950
AEWI0402ST-2N0□S	2.0 @ 250MHz	K,J	23	>6000	0.043	950
AEWI0402ST-2N2□S	2.2 @ 250MHz	K,J	22	>6000	0.058	820
AEWI0402ST-3N0□S	3.0 @ 250MHz	K,J	24	>6000	0.063	790
AEWI0402ST-3N3□S	3.3 @ 250MHz	K,J	24	>6000	0.063	790
AEWI0402ST-3N6□S	3.6 @ 250MHz	K,J	24	>6000	0.063	790
AEWI0402ST-3N9□S	3.9 @ 250MHz	K,J	22	>6000	0.063	790
AEWI0402ST-4N3□S	4.3 @ 250MHz	K,J	20	>6000	0.070	750
AEWI0402ST-4N7□S	4.7 @ 250MHz	K,J	23	>6000	0.120	570
AEWI0402ST-5N1□S	5.1 @ 700MHz	K,J	25	>6000	0.100	620
AEWI0402ST-5N6□S	5.6 @ 250MHz	K,J	24	>6000	0.078	710
AEWI0402ST-6N2□S	6.2 @ 250MHz	K,J	25	>6000	0.078	710
AEWI0402ST-6N8□S	6.8 @ 250MHz	J,G	25	6000	0.105	610
AEWI0402ST-7N5□S	7.5 @ 250MHz	J,G	25	5500	0.120	570
AEWI0402ST-8N2□S	8.2 @ 250MHz	J,G	24	5500	0.110	590
AEWI0402ST-9N1□S	9.1 @ 250MHz	J,G	26	5500	0.110	590
AEWI0402ST-10N□S	10 @ 250MHz	J,G	26	5500	0.150	510
AEWI0402ST-11N□S	11 @ 250MHz	J,G	24	5500	0.120	570
AEWI0402ST-12N□S	12 @ 250MHz	J,G	26	5500	0.120	570
AEWI0402ST-13N□S	13 @ 250MHz	J,G	26	5000	0.180	460
AEWI0402ST-15N□S	15 @ 250MHz	J,G	25	5000	0.210	430
AEWI0402ST-16N□S	16 @ 250MHz	J,G	25	4500	0.280	430
AEWI0402ST-18N□S	18 @ 250MHz	J,G	26	4500	0.280	370
AEWI0402ST-20N□S	20 @ 250MHz	J,G	26	4000	0.240	370

NOTE: □Tolerance value: B=±0.2nH, S=±0.3nH, G=±2%, J=±5% , K=±10%.

Part Number	Inductance (nH)	Tolerance (%)	Q Min	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated DC Current (mA)Max.
AEWI0402ST-22N□S	22 @ 250MHz	J,G	25	4000	0.360	400
AEWI0402ST-24N□S	24 @ 250MHz	J,G	25	3500	0.360	330
AEWI0402ST-27N□S	27 @ 250MHz	J,G	25	3500	0.380	330
AEWI0402ST-30N□S	30 @ 250MHz	J,G	25	3300	0.380	320
AEWI0402ST-33N□S	33 @ 250MHz	J,G	24	3200	0.550	320
AEWI0402ST-36N□S	36 @ 250MHz	J,G	25	3100	0.600	260
AEWI0402ST-39N□S	39 @ 250MHz	J,G	25	3000	0.600	250
AEWI0402ST-43N□S	43 @ 250MHz	J,G	25	3000	0.680	250
AEWI0402ST-47N□S	47 @ 250MHz	J,G	25	2900	0.950	240
AEWI0402ST-51N□S	51 @ 250MHz	J,G	25	2850	1.050	220
AEWI0402ST-56N□S	56 @ 250MHz	J,G	25	2800	1.050	200
AEWI0402ST-62N□S	62 @ 250MHz	J,G	24	2600	1.350	200
AEWI0402ST-68N□S	68 @ 250MHz	J,G	24	2500	1.750	190
AEWI0402ST-75N□S	75 @ 250MHz	J,G	24	2400	1.900	170
AEWI0402ST-82N□S	82 @ 250MHz	J,G	24	2300	1.950	140
AEWI0402ST-91N□S	91 @ 250MHz	J,G	24	2100	2.060	140
AEWI0402ST-R10□S	100 @ 200MHz	J,G	24	1500	2.060	130
AEWI0402ST-R12□S	120 @ 200MHz	J,G	24	1000	2.660	110

NOTE: ☐Tolerance value: B=±0.2nH, S=±0.3nH, G=±2%, J=±5% , K=±10%.

Test Equipment and Conditions

- Inductance measured using AEP-4286A LCR meter with AEP-16193A test fixture.
- Q measured with AEP-4286A WITH AEP-16193 impedance analyzer meter.
- For 20°C rise.
- According to EIA-481 Standard.

Introduction

- Wound Chip Inductors offers the best overall combination of low cost, close tolerance, better Q factor and higher self-resonant frequency than Multilayer chip inductor. which are widely used in communication application region

Feature

- High frequency applications
- Close tolerance application. 2% tolerance is available for particular inductance values
- Small footprint as well as low profile
- High quality factor
- Available for custom values
- Material available for ceramic or ferrite

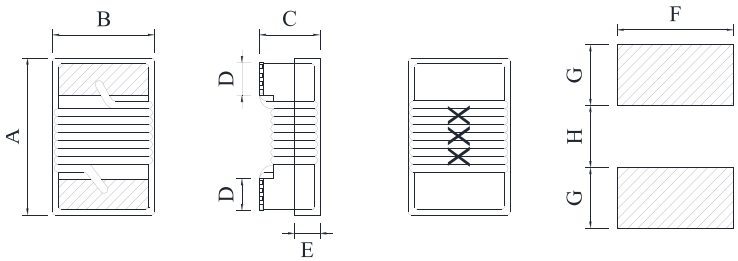
Application

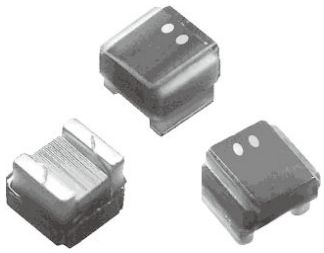
For high-frequency application such as:

- Mobile phones
- Portable phones
- Cordless phones
- Pagers
- PHS

EXTERNAL DIMENSIONS

(Unit: mm)





Type	A	B	C	D	E	F	G	H
AEWI0603ST	1.68±0.2	1.0±0.2	0.85±0.2	0.35±0.1	0.5Ref.	1.20	0.64	0.64

AEWI0603 ST Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated DC Current (mA)Max.
AEWI0603ST-1N6S	1.6 @ 250MHz	K,J	24	12500	0.030	700
AEWI0603ST-1N8S	1.8 @ 250MHz	K,J	16	12500	0.045	700
AEWI0603ST-3N6S	3.6 @ 250MHz	K,J	22	5900	0.063	700
AEWI0603ST-3N9S	3.9 @ 250MHz	K,J	22	6900	0.080	700
AEWI0603ST-4N3S	4.3 @ 250MHz	K,J	22	5900	0.063	700
AEWI0603ST-4N7S	4.7 @ 250MHz	K,J	20	5800	0.116	700
AEWI0603ST-5N1S	5.1 @ 250MHz	K,J	20	5700	0.140	700
AEWI0603ST-5N6S	5.6 @ 250MHz	K,J,G	18	4760	0.150	700
AEWI0603ST-6N8S	6.8 @ 250MHz	K,J,G	27	5800	0.110	700
AEWI0603ST-7N5S	7.5 @ 700MHz	K,J,G	28	4800	0.106	700
AEWI0603ST-8N2S	8.2 @ 250MHz	K,J,G	28	4200	0.120	700
AEWI0603ST-8N7S	8.7 @ 250MHz	K,J,G	28	4600	0.109	700
AEWI0603ST-9N5S	9.1 @ 250MHz	J,G	28	5400	0.135	700
AEWI0603ST-10NS	10 @ 250MHz	J,G	31	4800	0.130	700
AEWI0603ST-11NS	11 @ 250MHz	J,G	33	4000	0.130	700
AEWI0603ST-12NS	12 @ 250MHz	J,G	35	4000	0.130	700
AEWI0603ST-15NS	15 @ 250MHz	J,G	35	4000	0.170	700
AEWI0603ST-16NS	16 @ 250MHz	J,G	34	3300	0.104	700
AEWI0603ST-18NS	18 @ 350MHz	J,G	35	3100	0.170	700
AEWI0603ST-20NS	20 @ 250MHz	J,G	36	3000	0.180	700
AEWI0603ST-22NS	22 @ 350MHz	J,G	38	3000	0.190	700
AEWI0603ST-24NS	24 @ 250MHz	J,G	37	2650	0.190	700
AEWI0603ST-27NS	27 @ 250MHz	J,G	40	2800	0.220	600
AEWI0603ST-30NS	30 @ 250MHz	J,G	37	2250	0.220	600

NOTE: ☐Tolerance value: B=±0.2nH, S=±0.3nH, G=±2%, J=±5% , K=±10%.

Part Number	Inductance (nH)	Tolerance (%)	Q Min	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated DC Current (mA)Max.
AEWI0603ST-33N□S	33 @ 250MHz	J,G	40	2300	0.220	600
AEWI0603ST-36N□S	36 @ 250MHz	J,G	38	2080	0.250	600
AEWI0603ST-39N□S	39 @ 250MHz	J,G	40	2200	0.250	600
AEWI0603ST-43N□S	43 @ 250MHz	J,G	39	2000	0.280	600
AEWI0603ST-47N□S	47 @ 200MHz	J,G	38	2000	0.280	600
AEWI0603ST-51N□S	51 @ 200MHz	J,G	35	1900	0.280	600
AEWI0603ST-56N□S	56 @ 200MHz	J,G	38	1900	0.310	600
AEWI0603ST-68N□S	68 @ 200MHz	J,G	37	1700	0.340	600
AEWI0603ST-72N□S	72 @ 150MHz	J,G	34	1700	0.490	400
AEWI0603ST-75N□S	75 @ 150MHz	J,G	34	1700	0.520	400
AEWI0603ST-82N□S	82 @ 150MHz	J,G	34	1700	0.540	400
AEWI0603ST-R10□S	100 @ 150MHz	J,G	34	1400	0.580	400
AEWI0603ST-R11□S	110 @ 150MHz	J,G	32	1350	0.610	300
AEWI0603ST-R12□S	120 @ 150MHz	J,G	32	1300	0.750	300
AEWI0603ST-R15□S	150 @ 150MHz	J,G	28	990	0.920	280
AEWI0603ST-R18□S	180 @ 100MHz	J,G	25	990	1.250	240
AEWI0603ST-R20□S	200 @ 100MHz	J,G	25	900	1.980	200
AEWI0603ST-R22□S	220 @ 100MHz	K,J	25	900	2.100	200
AEWI0603ST-R25□S	250 @ 100MHz	J,G	25	822	3.550	120
AEWI0603ST-R27□S	270 @ 100MHz	J,G	24	520	2.300	170
AEWI0603ST-R33□S	330 @ 100MHz	J,G	24	500	3.630	160
AEWI0603ST-R39□S	390 @ 100MHz	J,G	22	400	3.700	130
AEWI0603ST-R47□S	470 @ 100MHz	J,G	20	300	3.500	100

NOTE: ☐Tolerance value: B=±0.2nH, S=±0.3nH, G=±2%, J=±5% , K=±10%.

Test Equipment and Conditions

- Inductance measured using AEP-4286A LCR meter with AEP-16193A test fixture.
- Q measured with AEP-4286A WITH AEP-16193 impedance analyzer meter.
- For 20°C rise.
- According to EIA-481 Standard.

Introduction

- Wound Chip Inductors offers the best overall combination of low cost, close tolerance, better Q factor and higher self-resonant frequency than Multilayer chip inductor. which are widely used in communication application region

Feature

- High frequency applications
- Close tolerance application. 2% tolerance is available for particular inductance values
- Small footprint as well as low profile
- High quality factor
- Available for custom values
- Material available for ceramic or ferrite

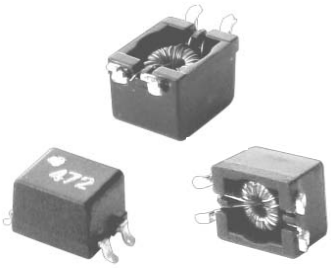
Application

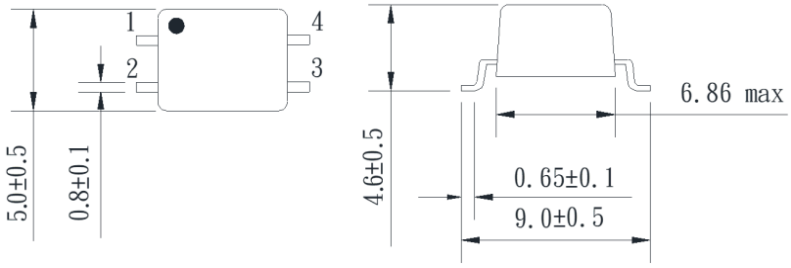
For high-frequency application such as:

- Mobile phones
- Portable phones
- Cordless phones
- Pagers
- PHS

EXTERNAL DIMENSIONS

(Unit: mm)





Part Number	Common Mode Impedance (Ω Max)	OCL (uH)	Test Frequency (KHz)	Rated Current (A) Max.	DC Resistance (Ω)Max.	Withstanding Voltage	Circuit Fig
AECM006T-100CS	1000	10±30%	100	1.6	0.08	AC500V/3mA/3S	1
AECM006T-100CS-S	1000	10±30%	100	1.6	0.08	AC500V/3mA/3S	2
AECM006T-250CS	2800	25±30%	100	1.0	0.12	AC500V/3mA/3S	1
AECM006T-250CS-S	2800	25±30%	100	1.0	0.12	AC500V/3mA/3S	2
AECM006T-400CS	3100	40±30%	100	0.9	0.25	AC500V/3mA/3S	1
AECM006T-400CS-S	3100	40±30%	100	0.9	0.25	AC500V/3mA/3S	2
AECM006T-510CS	5500	51±30%	100	1.0	0.16	AC500V/3mA/3S	1
AECM006T-510CS-S	5500	51±30%	100	1.0	0.16	AC500V/3mA/3S	2
AECM006T-251CS	1800	250±50%	100	1.2	0.13	AC500V/3mA/3S	1
AECM006T-501CS	3300	500±50%	100	1.0	0.15	AC500V/3mA/3S	1
AECM006T-102CS	6000	1000±50%	100	0.8	0.31	AC500V/3mA/3S	1
AECM006T-202CS	9200	2000±50%	100	0.6	0.42	AC500V/3mA/3S	1
AECM006T-472CS	-----	4700±50%	100	0.5	0.75	AC500V/3mA/3S	1
AECM006T-652CS	-----	6500±50%	10	0.4	0.95	AC500V/3mA/3S	1

Test Equipment and Conditions

- Impedance measured using AEP-4291B impedance analyzer with AEP-16092 test fixture.
- DC Resistance with CH-16502A meter.
- OCL with AEP-4284A.
- Withstanding Voltage with CH-19073.
- Operating temperature : –40°C~ +125°C.

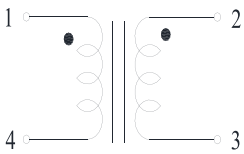
Features

- Optimal common mode filter for removing noise without straining the transmission signal and for transmitting High-guality signals.
- Optimal countermeasure for common mode noise induced during data transmission for digital signal processing such as in PCs and telephones.
- SMD type structure makes it optimal for surface mounting.
- Up to 2A current is allowable, so it can be used as a noise countermeasure for power supply lines.

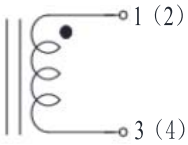
Applications

- PCs, telephones, LANs, ISDNs, digital PBXs, game machines, CTVs, CD-ROMs, 8mm video cassette recorders

Schematic Fig1:



Schematic Fig2:



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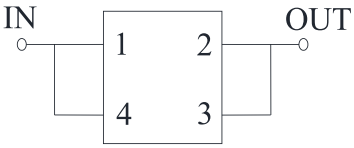
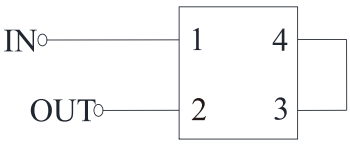
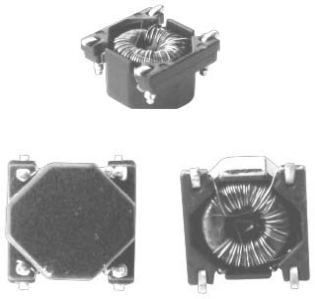
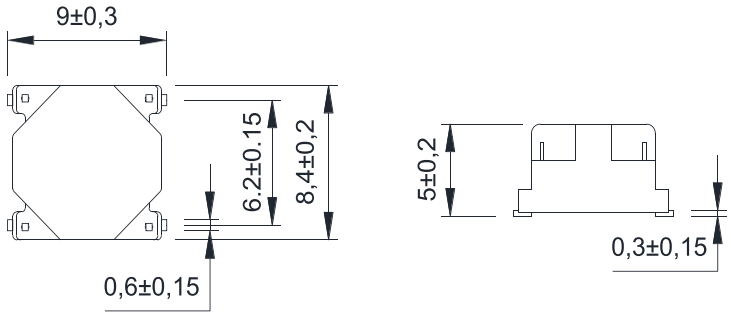




EXTERNAL DIMENSIONS

(Unit: mm)





Part Number	Inductance L(mH)±30%	Test Frequency (KHz)	Withstanding Voltage	DC Resistance (Ω)±30%	Rated Current (A) Max.	Rated Voltage
AECM008T-472NS	4.7	100	AC600V	1.0	0.3	80V

Test Equipment and Conditions

- Impedance measured using AEP-4291B impedance analyzer with AEP-16092 test fixture.
- DC Resistance with CH-16502A meter.
- OCL with AEP-4284A.
- Withstanding Voltage with CH-19073.
- Operating temperature : –25℃~ +85℃.

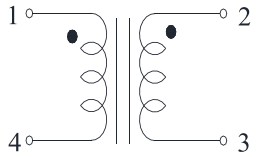
Features

- YT008T series provide effective noise rejection characteristics without distorting the transmission signal.Therefore this product is most suitable for an application of a xDSL interface circuit.
- The products contain no lead and also support lead-free soldering.

Applications

- xDSL , modem , Pots-splitters for DSLAM.

Schematic



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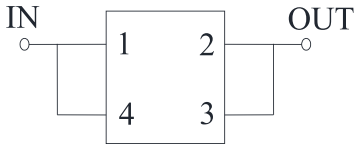
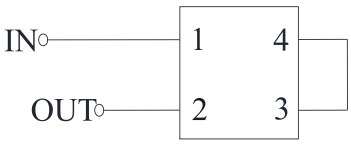
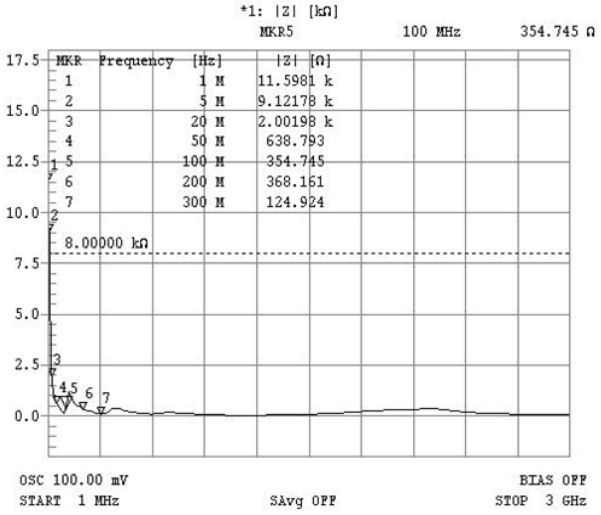


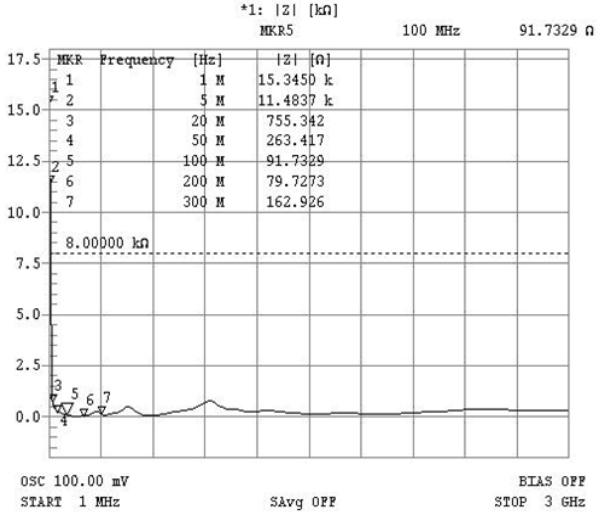


Impedance vs. Frequency

COMMON MODE

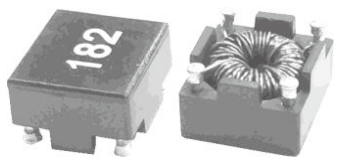


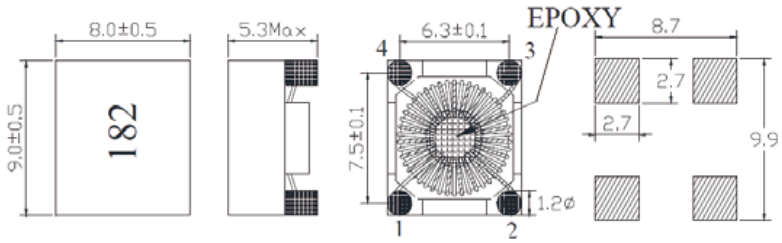
DIFFERENTIAL MODE



EXTERNAL DIMENSIONS

(Unit: mm)





Part Number	Inductance L(mH)Min.	Test Frequency (KHz)	Withstanding Voltage	DC Resistance (Ω)Max.	Rated Current (A) Max.	Rated Voltage
AECM632T-182MS	1.8	100	DC500V	0.18	0.5	80V

Test Equipment and Conditions

- Impedance measured using AEP-4291B impedance analyzer with AEP-16092 test fixture.
- DC Resistance with CH-502A meter.
- Operating temperature : –25℃~ +85℃.

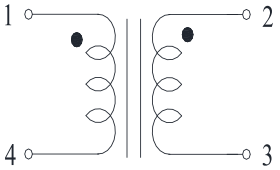
Features

- Compact size high performance and low cost.
- Large impedance at high frequencies.
- Excellent high frequency characteristics.

Applications

- Applied equipment: TV , VCR, Switching power sources, NC machines, Computes systems and Measuring instruments.

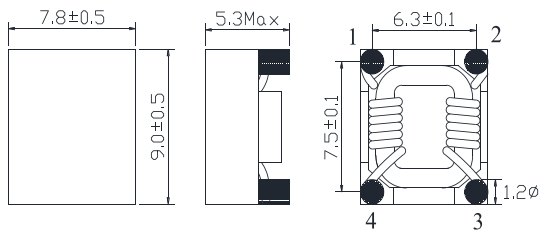
Schematic

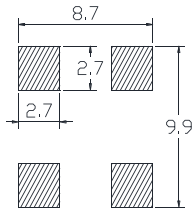


Test Mode:

EXTERNAL DIMENSIONS

(Unit: mm)





Part Number	Common Mode Impedance @100MHz ±25%	Rated Current (A)Max.	DC Resistance (mΩ)Max.	Rated Voltage
AECM752T-501S	500Ω	5.0	10	80VDC
AECM752T-801S	800Ω	3.5	20	
AECM752T-102S	1000Ω	2.5	50	

Test Equipment and Conditions

- Impedance measured using AEP-4291B impedance analyzer with AEP-16092 test fixture.
- DC Resistance with CH-502A meter.
- Operating temperature : –25°C~ +85°C.

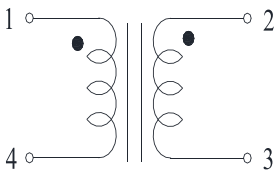
Features

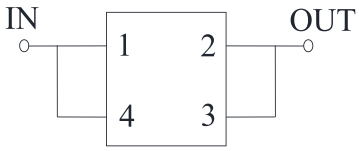
- Compact size high performance and low cost.
- Large impedance at high frequencies.
- Excellent high frequency characteristics.

Applications

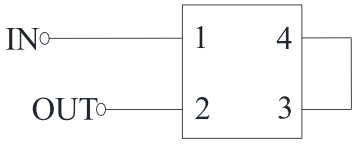
- Applied equipment: TV , VCR, Switching power sources, NC machines, Computes systems and Measuring instruments.

Schematic



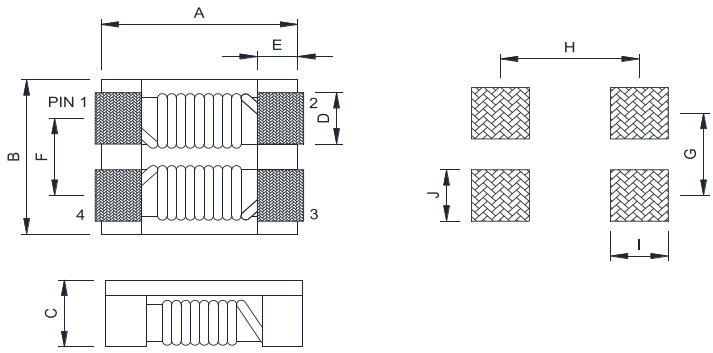


Test Mode:



EXTERNAL DIMENSIONS

(Unit: mm)



TYPE	A	B	C	D	E	F	G	H	I	J
AECM764PT	7.0±0.4	6.0±0.3	3.6±0.3.	1.6±0.3	1.7±0.3	3.0±0.3	3.0Typ.	6.5Ref.	2.5Ref.	1.6Ref.

Part Number	Common Mode Impedance @100MHz Min / Typ.	Rated Current (A)Max.	DC Resistance (mΩ)Max.	Rated Voltage
AECM764PT-301S	225Ω/300Ω	5.0	10	80VDC
AECM764PT-701S	500Ω/700Ω	4.0	15	
AECM764PT-102S	800Ω /1000Ω	3.0	17	

Test Equipment and Conditions

- Impedance measured using AEP-4291B impedance analyzer with AEP-16092 test fixture.
- DC Resistance with CH-502A meter.
- Operating temperature : –40°C~ +125°C.

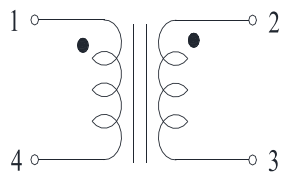
Features

- A compact and light-weight choke coil. Applicable for the miniaturization required to reduce the size and weight of portable equipment.

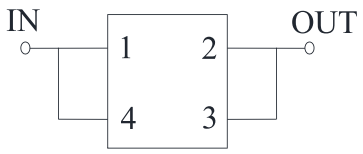
Applications

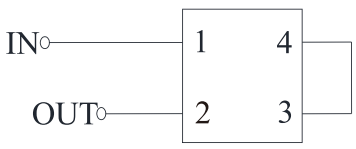
- Used for power line noise suppression for any electronic devices.Used to counter adapter/battery line noise for relatively large electronic devices such as notebook PCs, stand-alone word processors, etc.

Schematic



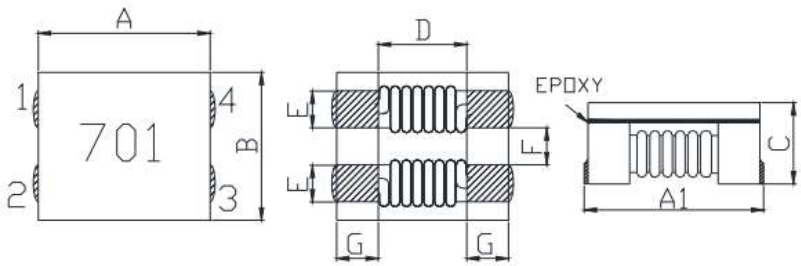
Test Mode:





EXTERNAL DIMENSIONS

(Unit: mm)



TYPE	A	A1	B	C	D	E	F	G
AECM9070F	9.0±0.5	9.0±0.5	7.0±0.5	4.8Max	5.7TYP	1.8±0.4	2.0±0.4	1.7±0.4

Part Number	Common Mode Impedance @100MHz Min / Typ.	RDC (Ω)Max	Rated Current (A)Max	DC Resistance (mΩ)Max	Rated Voltage
AECM-9070F-701	500Ω/700Ω	10m	5.0	10	80VDC
AECM-9070F-102	750Ω/100Ω	13m	4.0	10	
AECM-9070F-152	1100Ω/1500Ω	18m	3.5	10	
AECM-9070F-222	1700Ω/2200Ω	60m	2.5	10	
AECM-9070F-272	2000Ω/2700Ω	86m	2.0	10	
AECM-9070F-272	2000Ω/2700Ω	86m	2.0	10	

Test Equipment and Conditions

- Impedance measured using AEP-4291B impedance analyzer with AEP-16092 test fixture.
- DC Resistance with CH-502A meter.
- Operating temperature : –40°C~ +125°C.

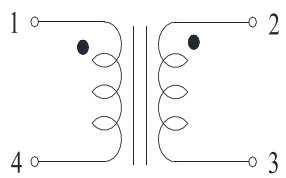
Features

- A compact and light-weight choke coil. Applicable for the miniaturization required to reduce the size and weight of portable equipment.

Applications

- Used for power line noise suppression for any electronic devices.Used to counter adapter/battery line noise for relatively large electronic devices such as notebook PCs, stand-alone word processors, etc.

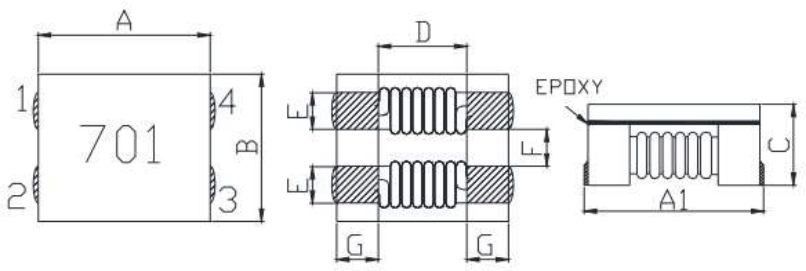
Schematic

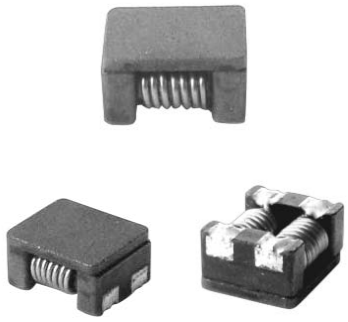


Test Mode:

EXTERNAL DIMENSIONS

(Unit: mm)





TYPE	A	A1	B	C	D	E	F	G
AECM1211F	12.0±0.5	12.5±0.5	10.8±0.5	6.5Max	7.0TYP	2.7±0.2	2.5±0.2	2.5±0.2

Part Number	Common Mode Impedance @100MHz Min / Typ.	RDC (Ω)Max	Rated Current (A)Max	DC Resistance (mΩ)Max	Rated Voltage
AECM-1211F-800	80Ω/230Ω	2.2m TYP	10.0	10	80VDC
AECM-1211F-701	500Ω/700Ω	6.0m	8.0	10	
AECM-1211F-801	600Ω/800Ω	8.0m	8.0	10	
AECM-1211F-102	750Ω/100Ω	14m	6.0	10	
AECM-1211F-222	2200Ω/2500Ω	35m	1.8	10	
AECM-1211F-272	2300Ω/2700Ω	50m	1.5	10	

Test Equipment and Conditions

- Impedance measured using AEP-4291B impedance analyzer with AEP-16092 test fixture.
- DC Resistance with CH-502A meter.
- Operating temperature : –40°C~ +125°C.

Features

- A compact and light-weight choke coil. Applicable for the miniaturization required to reduce the size and weight of portable equipment.

Applications

- Used for power line noise suppression for any electronic devices.Used to counter adapter/battery line noise for relatively large electronic devices such as notebook PCs, stand-alone word processors, etc.

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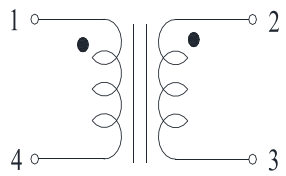
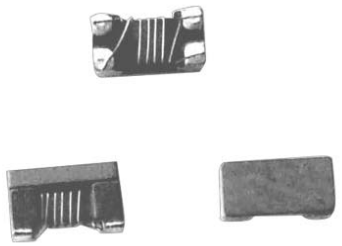
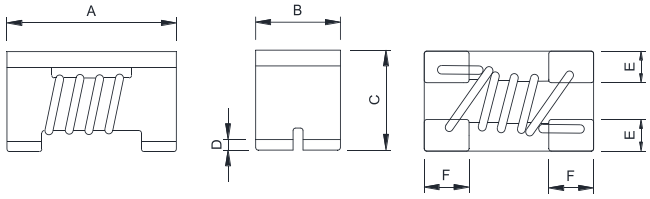


Test Mode:

EXTERNAL DIMENSIONS

(Unit: mm)





TYPE	A	B	C	D	E	F
AEFD2012AT	2.0±0.2	1.2±0.2	1.2±0.2	0.2±0.1	0.40 Typ.	0.36 Typ.

Part Number	Common Mode Impedance(Ω) @ 100MHz	Idc(mA) (Max.)	DCR(Ω) (Max.)	Rated Voltage (Typ.)	Withstanding Voltage (Typ.)	Insulation Resistance (Min.)	Cut-off Frequency (Typ.)
AEFD2012AT-670S	67	400	0.25	50Vdc	125Vdc	10 MΩ	1.0 GHz
AEFD2012AT-900S	90	400	0.30				
AEFD2012AT-121S	120	350	0.30				
AEFD2012AT-161S	160	350	0.30				
AEFD2012AT-181S	180	330	0.35				
AEFD2012AT-221S	220	330	0.35				
AEFD2012AT-261S	260	300	0.40				
AEFD2012AT-361S	360	280	0.40				

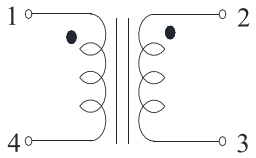
Features

- Although greatly miniaturized, this wire-wound chip-type filter maintanins the characteristic needed for a common mode filter.Common mode impedance is 1000 [at 100MHz], so this filter is greatly effective in supporting noise.
- Almost no affect upon even high speed signals since differential mode impedance is kept low.
- This series includes both 2-line types. They are used for various types of circuits and noise.

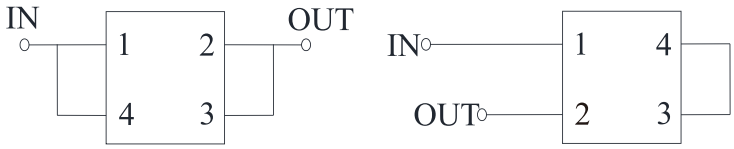
Applications

- Used for radiation noise suppression for any electronic devices
- Used to counter common mode noise affecting signals within high-speed lines.
- USB line for personal computers and peripheral equipment.
- IEEE 1394 line for personal computers, DVC, STB, etc.
- LVDS, panel link line for liquid crystal display panels.

Schematic

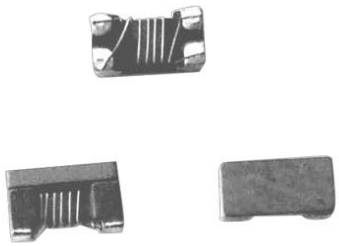


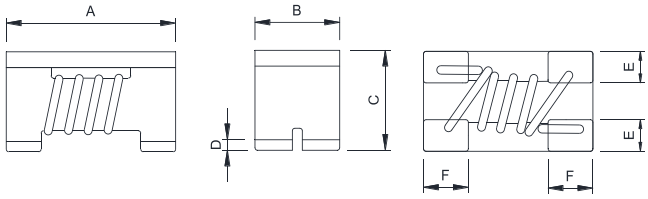
Test Mode



EXTERNAL DIMENSIONS

(Unit: mm)





TYPE	A	B	C	D	E	F
AEFD3216AT	3.2±0.2	1.6±0.2	1.9±0.2	0.2±0.1	0.60Typ.	0.60Typ.

Part Number	Common Mode Impedance(Ω) @ 100MHz	Idc(mA) (Max.)	DCR(Ω) (Max.)	Rated Voltage (Typ.)	Withstanding Voltage (Typ.)	Insulation Resistance (Min.)	Cut-off Frequency (Typ.)
AEFD3216AT-670S	67	400	0.25				
AEFD3216AT-900S	90	400	0.30				
AEFD3216AT-121S	120	370	0.35				
AEFD3216AT-161S	160	340	0.40				
AEFD3216AT-181S	180	340	0.40	50Vdc	125Vdc	10 MΩ	1.0 GHz
AEFD3216AT-261S	260	310	0.50				
AEFD3216AT-601S	600	260	0.80				
AEFD3216AT-102S	1000	230	1.00				
AEFD3216AT-222S	2200	200	1.20				

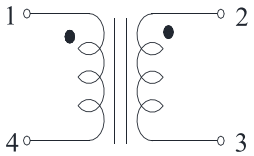
Features

- Although greatly miniaturized, this wire-wound chip-type filter maintanins the characteristic needed for a common mode filter.Common mode impedance is 1000 [at 100MHz], so this filter is greatly effective in supporting noise.
- Almost no affect upon even high speed signals since differential mode impedance is kept low.
- This series includes both 2-line types. They are used for various types of circuits and noise.

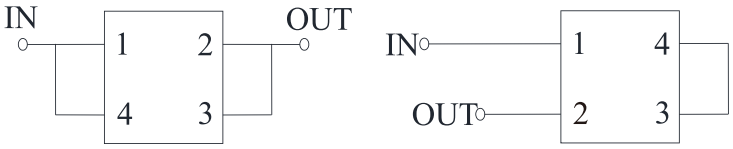
Applications

- Used for radiation noise suppression for any electronic devices
- Used to counter common mode noise affecting signals within high-speed lines.
- USB line for personal computers and peripheral equipment.
- IEEE 1394 line for personal computers, DVC, STB, etc.
- LVDS, panel link line for liquid crystal display panels.

Schematic

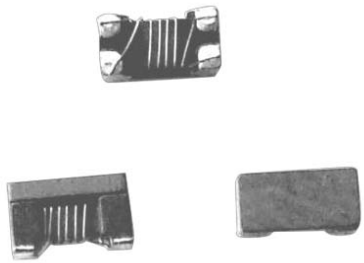


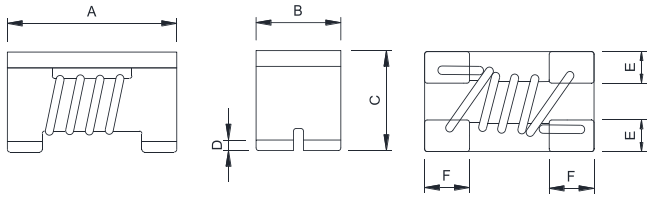
Test Mode



EXTERNAL DIMENSIONS

(Unit: mm)





TYPE	A	B	C	D	E	F
AEFD2012HT	2.0±0.2	1.2±0.2	1.2±0.2	0.2±0.1	0.40 Typ.	0.36 Typ.

Part Number	Z(Ω) Common Mode Impedance at 100MHz	Idc(mA) (Max.)	DCR(Ω) (Max.)	Rated Voltage Vdc (V)Typ.	Characteristic Resistance (Ω)	Insulation Resistance (MΩ)Min.	Cut-off Frequency (GHz)Typ.
AEFD2012HT-300-1S	30	300	0.20	20	100	10	6.0
AEFD2012HT-600-1S	60	300	0.30	20	100	10	6.0
AEFD2012HT-900-1S	90	300	0.30	20	100	10	6.0

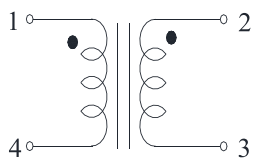
Features

- These broadband common mode filters were developed for high-speed differential signal interfaces, such as DVI and AEDMI™.
- The cutoff frequencies in differential mode for AEFDxxxxD and AEFDxxxxH are 3.5GHz and 6.0GHz respectively, so they do not interfere with high-speed differential signals.
- The characteristic impedance is approximated to 100Ω, conforming to the TDR standard for AEDMI™.

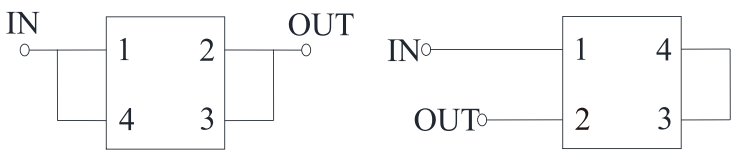
Applications

- For new AEDMI™ interfaces used in digital video Used for radiation noise suppression for any electronic devices. devices: AEFDxxxxH is suited for use on the transmission side (Source) of digital TVs, DVD recorders and liquid crystal projectors. AEFDxxxxD is suited for use on the receiving side (Sink).
- For digital video signal interfaces DVI (UXGA) used in PCs and other devices/High-speed differential signal interfaces for USB 2.0, IEEE1394 and Serial ATA.

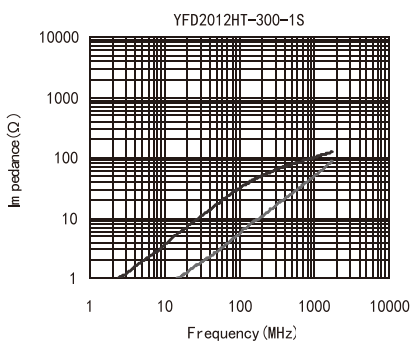
Schematic

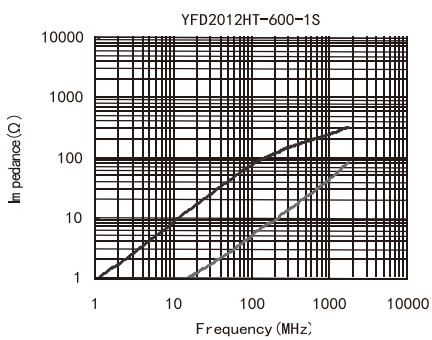


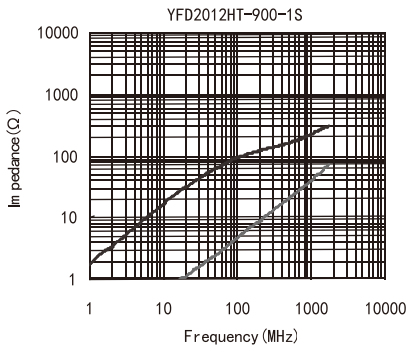
Test Mode



Impedance vs. Frequency

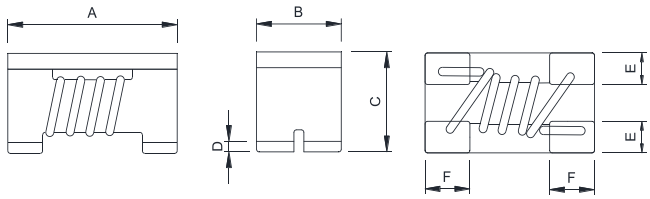


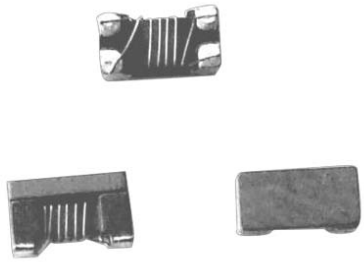




EXTERNAL DIMENSIONS

(Unit: mm)





TYPE	A	B	C	D	E	F
AEFD1210ST	1.20±0.2	1.00±0.2	0.9±0.2	0.1±0.05	0.36 Typ.	0.33 Typ.

Part Number	Z(Ω) Common Mode Impedance at 100MHz	Idc(mA) (Max.)	DCR(Ω) (Max.)	Rated Voltage Vdc (V)Typ.	Characteristic Resistance (Ω)	Insulation Resistance (MΩ)Min.	Cut-off Frequency (GHz)Typ.
AEFD1210ST-250S	25	300	0.30	20	90	10	7.5
AEFD1210ST-600S	60	300	0.40	20	90	10	7.5
AEFD1210ST-900S	90	280	0.50	20	90	10	7.5

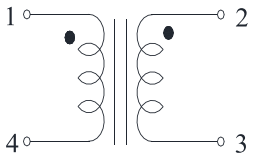
Features

- These are a series of broadband common mode filters developed for high-speed differential signal interfaces, such as DVI and AEDMI™.
- The characteristic impedance is approximated to 100Ω, conforming to the TDR standard for AEDMI™.

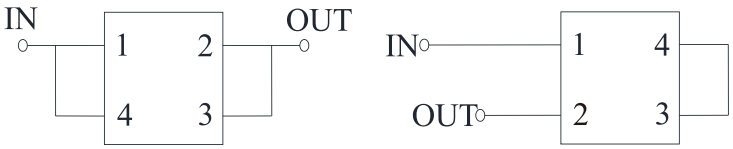
Applications

- For digital video signal interfaces DVI (UXGA) used in PCs and other devices/High-speed differential signal interfaces for USB 3.0, IEEE1394 and Serial ATA.

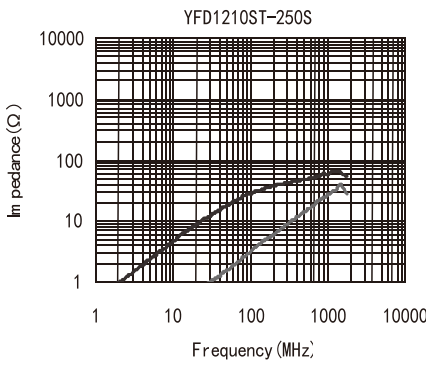
Schematic

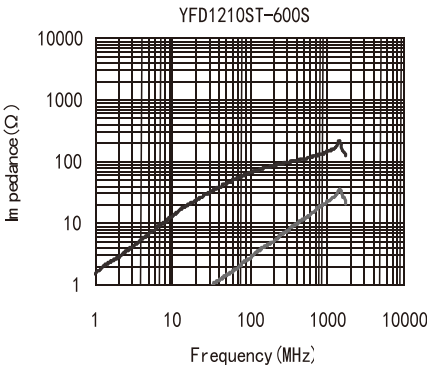


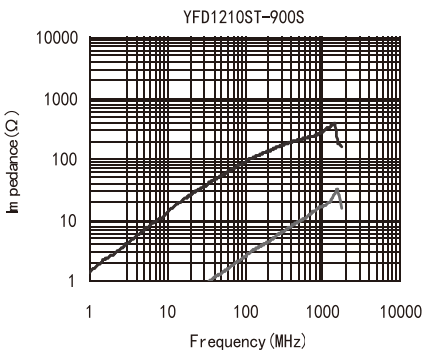
Test Mode



Impedance vs. Frequency

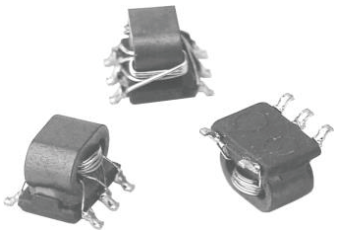


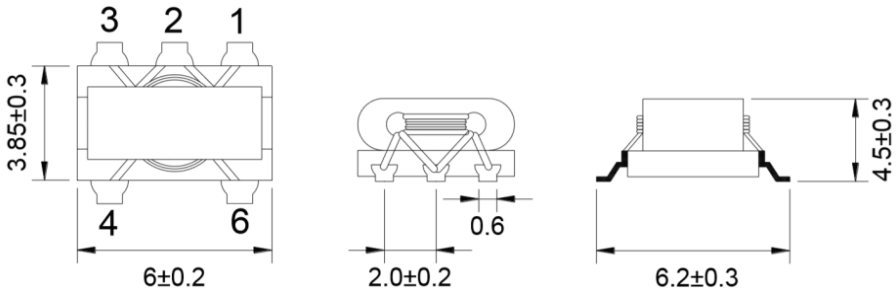




EXTERNAL DIMENSIONS

(Unit:mm)





Part Number	Winding Turns	Operating Frequency Range	Insertion Loss	Pin Connection Fig.
DOCSIS 2.0				
AEB001T-225TS	2 x 2 5	5MHz ~ 100MHz	2.0 dB Max.	2
AEB001T-336TS-1S	3 x 3 6	1MHz ~ 85MHz	1.0 dB Max.	
DOCSIS 3.0				
AEB001T-228TS	2 x 2 8	5MHz ~ 85MHz	3.5 dB Max.	
Double Balanced Mixer				
AEB001T-1003AS	3 x 4	8MHz ~ 800MHz	3.5 dB Max.	1
AEB001T-1005AS	2 x 4	400MHz ~ 1.3GHz	4.0 dB Max.	
AEB001T-1008AS	4 x 4	6MHz ~ 600MHz	2.5 dB Max.	
AEB001T-1011AS	5 x 4	5MHz ~ 500MHz	2.0 dB Max.	
AEB001T-1012AS	1 x 4	50MHz ~ 400MHz	10.0 dB Max.	
AEB001T-1013AS	2 x 4	10MHz ~ 1.0GHz	6.0 dB Max.	
Frequency Mixer				
AEB001T-1024AS	3 x 2 3	3.5MHz ~ 470MHz		2
AEB001T-1052AS	2 x 2 2	9MHz ~ 350MHz		
AEB001T-1085AS	1 x 2 1	—	3.0 dB Max.	
AEB001T-1086AS	4 x 2 4	2.2MHz ~ 400MHz		
AEB001T-1087AS	5 x 2 5	1.5MHz ~ 300MHz		
Directional Coupler				
AEB001T-1006AS	5	6MHz ~ 600MHz	IN to OUT-1 0.9 dB Max. IN to OUT-2 13~16 dB	3
AEB001T-1007AS	6		IN to OUT-1 0.8 dB Max. IN to OUT-2 15~17 dB	
AEB001T-1015AS	4		IN to OUT-1 1.3 dB Max IN to OUT-2 11~14 dB	

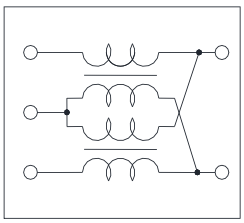
Features

- Windings use paired wires for high uniformity.
- Base pins are end proccessed to allow direct mounting on PCB.

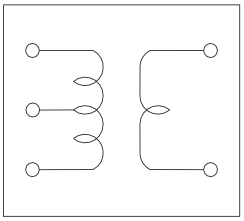
Applications

- Double balanced mixers, broad-band transformers, impedance transformers, etc.

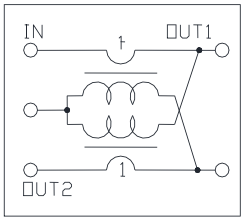
Schematic



Double Balanced Mixer
Fig.1



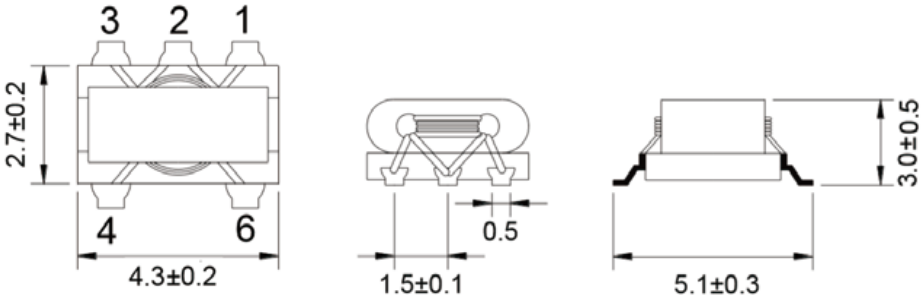
Mixer Transformer
Fig.2

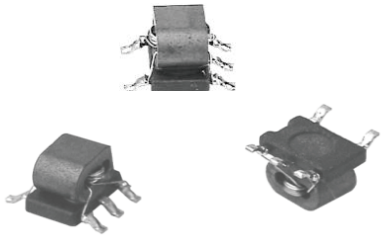


Distributor
Fig.3

EXTERNAL DIMENSIONS

(Unit: mm)





Part Number	Winding Turns	Operating Frequency Range	Insertion Loss	Pin Connection Fig.
DOCSIS 2.0				
AEB006T-33T-1S	3 x 2 6	5MHz ~ 100MHz	1.1 dB Max.	
DOCSIS 3.0				
AEB006T-226T-3S	2 x 2 6	5MHz ~ 200MHz	2.0 dB Max.	
AEB006T-33T-5S	3 x 2 6	5MHz ~ 200MHz	6.5 dB Max.	2
DOCSIS 3.1				
AEB006T-113TS	1 x 2 3	5MHz ~ 204MHz	1.0 dB Max.	
AEB006T-22612	2 x 2 6	5MHz ~ 300MHz	2.0 dB Max.	
AEB006T-33611	3 x 3 6	5MHz ~ 300MHz	1.3 dB Max.	
Double Balanced Mixer				
AEB006T-1007AS	2	25MHz ~ 2000MHz		
AEB006T-1009AS	3	6. MHz ~ 2000MHz		
AEB006T-1006AS	3	150MHz ~ 2300MHz	3.0 dB Max.	1
AEB006T-1010AS	4	3.5MHz ~ 2000MHz		
AEB006T-1018AS	5	2MHz ~ 2000MHz		
Balun transformer				
AEB006T-1021AS	1.5	20MHz ~ 750 MHz		
AEB006T-1022AS	2.5	4.5MHz ~ 3300MHz	3.0 dB Max.	3
AEB006T-1023AS	3.5	2.3MHz ~ 2700MHz		
AEB006T-1024AS	4.5	1.5MHz ~ 2400MHz		
Distributor				
AEB006T-1079AS	2	1300MHz ~ 1700MHz	IN to OUT-1,2 4.5dB Max.	
AEB006T-1076AS	3	800MHz ~ 1000MHz	OUT-1 to OUT-2 (isolation) 15dB Min.	4

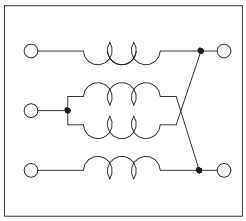
Features

- Windings use paired wires for high uniformity.
- Base pins are end proccessed to allow direct mounting on PCB.

Applications

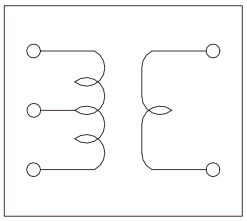
- Double balanced mixers, broad-band transformers, impedance transformers, etc.

Schematic



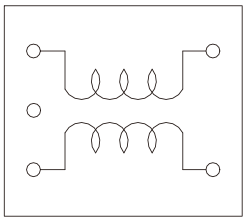
Double Balanced

Fig.1



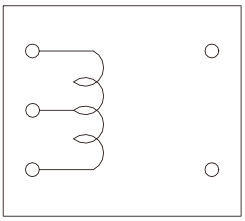
Coupled Transformer

Fig.2



Balun Transformer

Fig.3

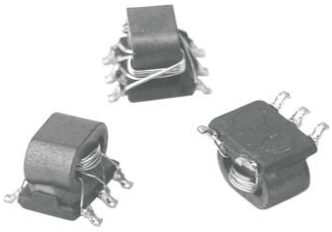


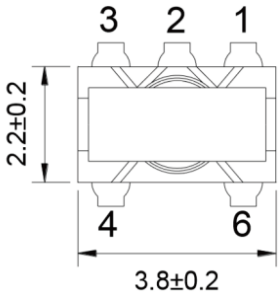
Distributor

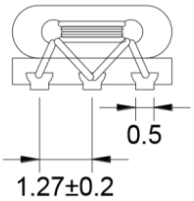
Fig.4

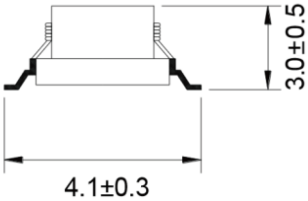
EXTERNAL DIMENSIONS

(Unit: mm)









Part Number	Winding Turns	Operating Frequency Range	Insertion Loss
DOCSIS 3.0			
AEB081T-116TS	1 x 2 6	5MHz~85MHz	1.0 dB Max.
DOCSIS 3.1			
AEB081T-114T-1S	1 x 1 4	5MHz~300MHz	4.5 dB Max.

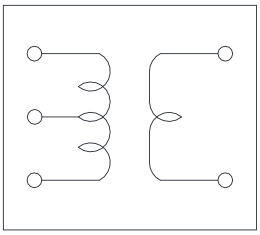
Features

- Windings use paired wires for high uniformity.
- Base pins are end proccessed to allow direct mounting on PCB.

Applications

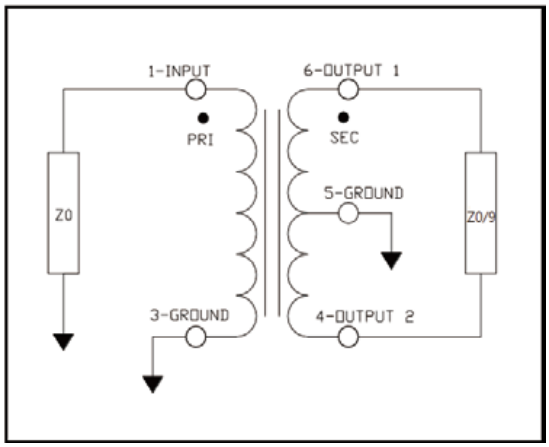
- broad-band transformers, impedance transformers

Schematic

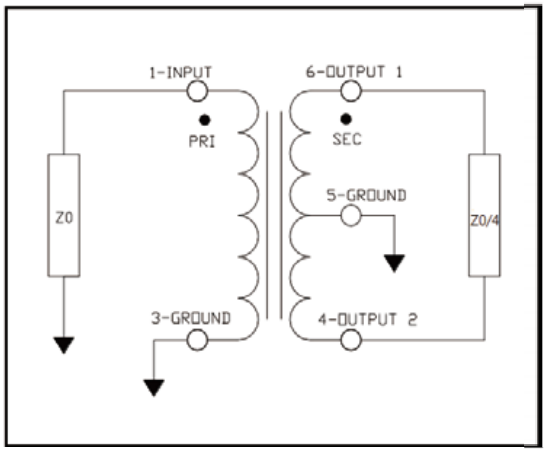


Application Circuit

AEB081T-116TS

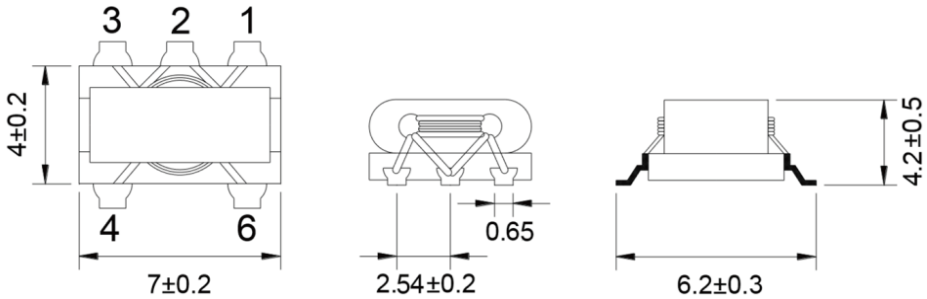


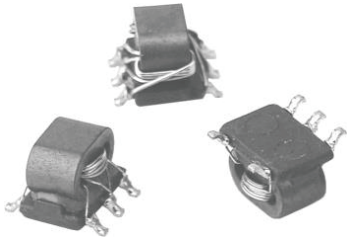
AEB081T-114T-1S



EXTERNAL DIMENSIONS

(Unit: mm)





Part Number	Winding Turns	Operating Frequency Range	Insertion Loss
DOCSIS 3.0			
AEB082T-114TS	1 x 2 4	5MHz~200MHz	3.1dB Max.

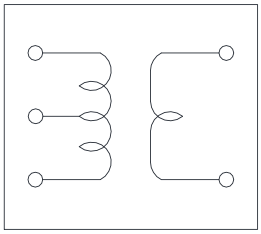
Features

- Windings use paired wires for high uniformity.
- Base pins are end proccessed to allow direct mounting on PCB.

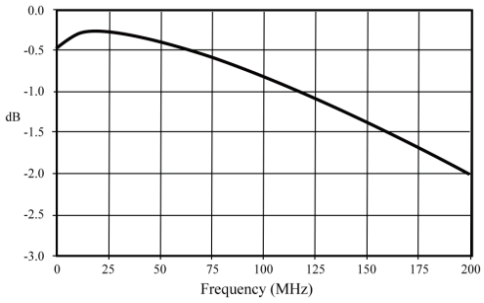
Applications

- broad-band transformers, impedance transformers.

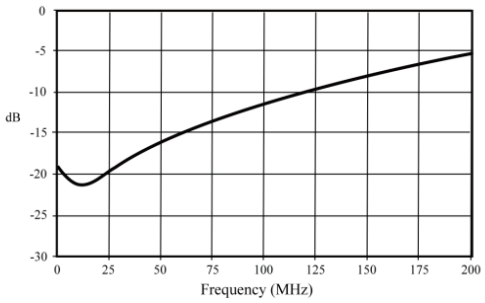
Schematic



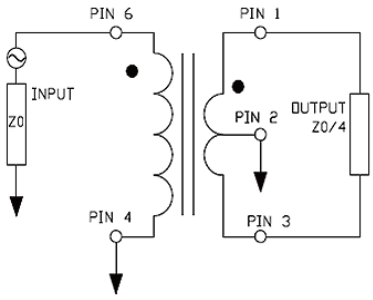
Insertion Loss :



Return Loss :



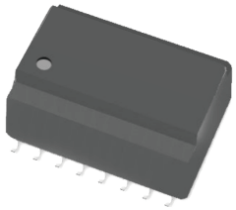
Application Circuit

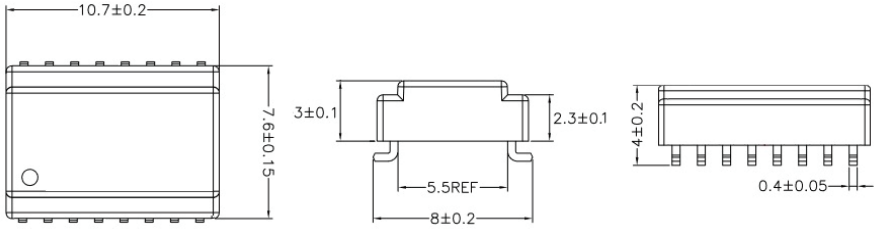


Parameter	Conditions	Units	Min.	Typ.	Max.
Insertion Loss (pin6-pin1)	5-50 MHz	dB	-	0.4	0.8
	50-150 MHz	dB	-	1.0	2.2
	150-200 MHz	dB	-	2.0	3.1
Input Return Loss (pin6)	5-25 MHz	dB	17	20	-
	25-50 MHz	dB	12	15	-
	50-150 MHz	dB	5	9	-
	150-200 MHz	dB	3	5	-

EXTERNAL DIMENSIONS

(Unit: mm)





Part Number	Winding Turns	Operating Frequency Range	Insertion Loss
G.hn Wavw 2 Power Line Adapter			
AEB096T-2633T	3 x 3 x 6 x 2	2MHz~100MHz	2.0 dB Max.

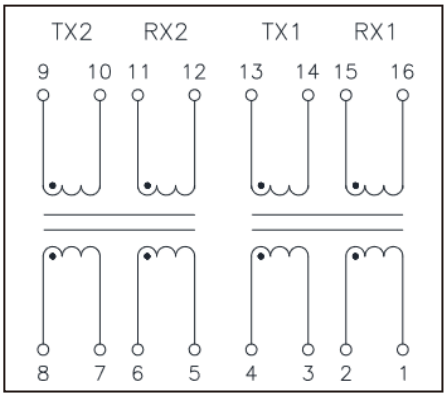
Features

- Windings use paired wires for high uniformity.
- Base pins are end proccessed to allow direct mounting on PCB.

Applications

- For Marvell reference design DW920 G.hn wave2 Power line adapter
- For Marvell AFE chip 88LX2720

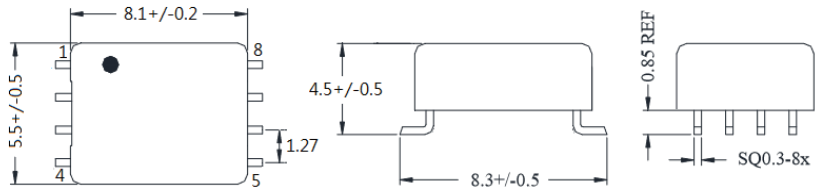
Schematic

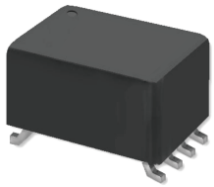


Turns Ratio Pin (1-2):(3-4):(13-14):(15-16) Pin (5-6):(7-8):(9-10):(11-12)	: 1.5 : 1.5 : 3 : 1±5%
Inductance: Pin (1-2),(3-4),(5-6),(7-8)	: 28.8uH±30% @100KHz/0.1V
Pin (11-12),(15-15)	: 115.2uH±30% @100KHz/0.1V
Pin (9-10),(13-14)	: 12.8uH±30% @100KHz/0.1V
Leakage Inductance Pin(1-4),(5-8)	: 0.35uH Max. @100KHz/0.1V
DC Resistance Pin(1-2),(3-4),(5-6),(7-8)	: 160mΩ Max.
Pin(16-15),(12-11)	: 240mΩ Max.
Pin(14-13),(10-9)	: 60mΩ Max.
Hi-Pot	: 1500VAC/1mA/2S
Operation Temperature	: -40℃ ~ + 125℃

EXTERNAL DIMENSIONS

(Unit: mm)





Part Number	Winding Turns	Operating Frequency Range	Insertion Loss
G.hn Wavw2 Phone Line/Coax Adapter			
AEB097T-2242T	2 x 2 x 4 x 2	2MHz~200MHz	0.5dB Max.

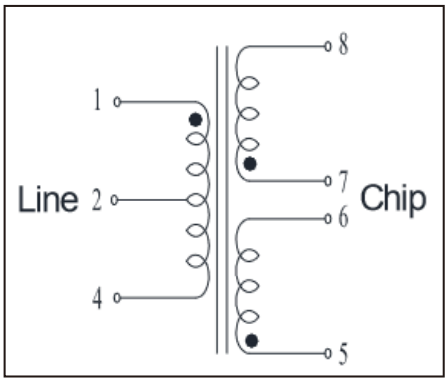
Features

- Windings use paired wires for high uniformity.
- Base pins are end proccessed to allow direct mounting on PCB.

Applications

- For Marvell reference design G.hn wave2 DPC962C Coax and DPC962P Phone line adapter
- For Marvell AFE chip 88LX2730

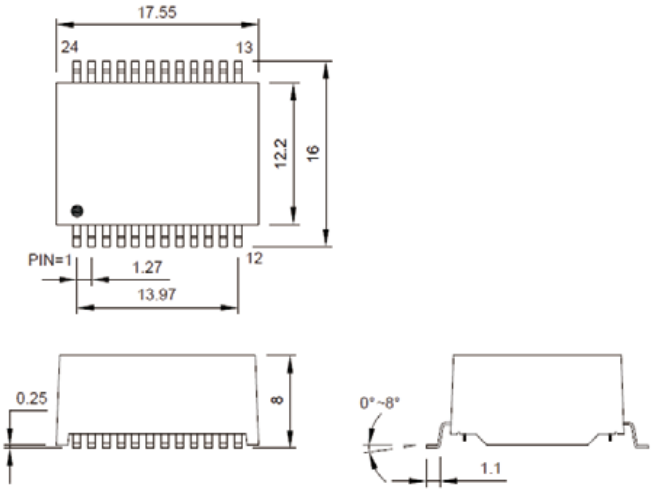
Schematic

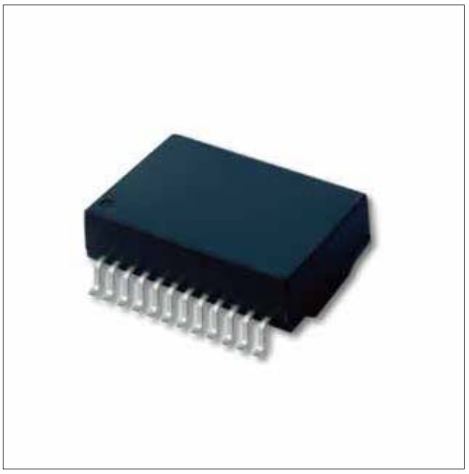


Turns Ratio Pin(1-2):(2-4):(5-6):(7-8)	: 1 : 1 : 2 : 1±5%
Inductance Pin(1-2),(2-4),(7-8)	: 8uH Min@100KHz/0.1V
Pin(5-6)	: 45uH Min@100KHz/0.1V
Leakage Inductance Pin(1-4)	: 0.4uH Max@100KHz/0.1V
Pin(5-6)	: 0.2uH Max@100KHz/0.1V
DC Resistance Pin(1-2),(2-4),(7-8)	: 40mΩ Max.
Pin(5-6)	: 70mΩ Max.
Hi-Pot	: 1500VAC/1mA/2S
Operation Temperature	: -40℃ ~ + 125℃

(Unit: m/m)

MECHANICAL SPECIFICATIONS





10/100/1000 BASE-T TRANSFORMER MODULES

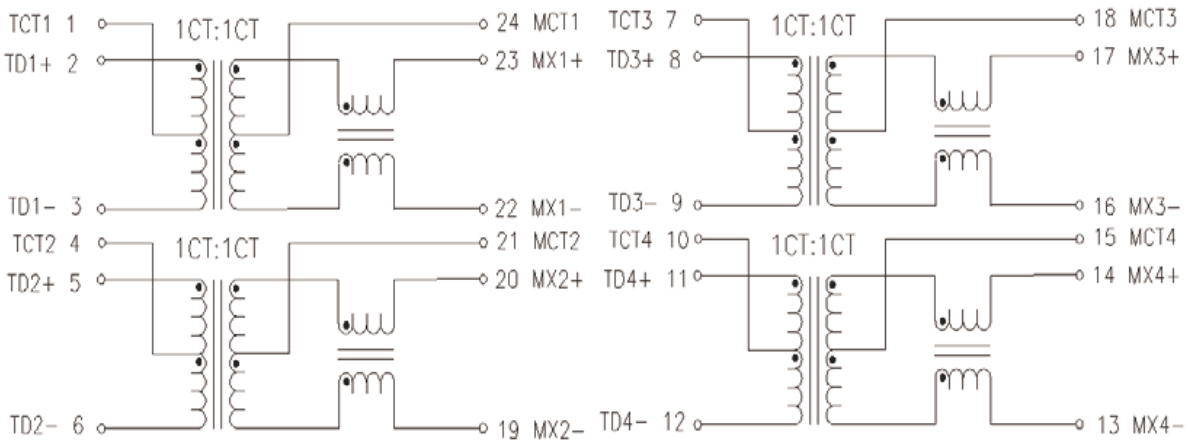
- Designed to meet IEEE 802.3ab requirement, including 350uH OCL with 8mA bias
- Compliance with ROHS requirements
- Operating Temperature range: 0 ℃ ~+70 ℃
- Storage Temperature range: -25 ℃ ~+125 ℃
- Package：350PCS/Reel；3500PCS/Big Carton

ELECTRICAL SPECIFICATIONS @ 25°C

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)		DCMR (dB Min)	Crosstalk (dB Min)
Freq.	1-100 MHz	1-40 MHz	40-100 MHz	1-100 MHz	1-100 MHZ
AEB12401	-1.2	-18	-12+Log(f/80)	-30	-30

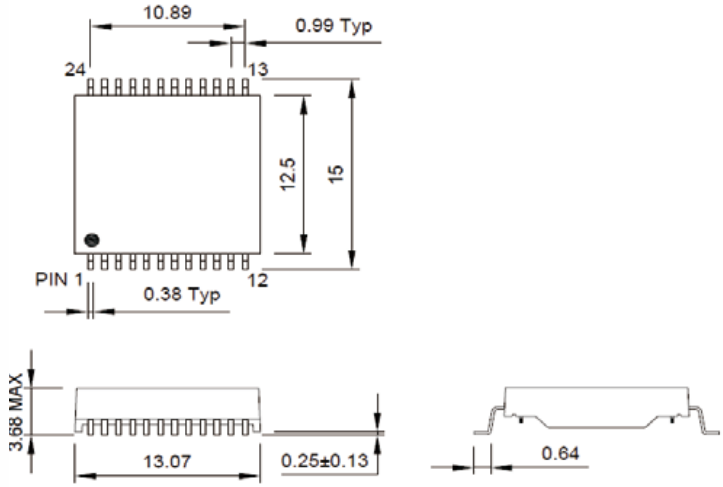
Continue					
Part Number	**OCL(uH Min) @100KHz/0.1V with DC8mA Bias**	**Turns Ratio (TX:RX±5%)**	**Cw/w (pF Max)**	**L.L(uH Max) @100KHz/0.1V**	**Hi-pot**
AEB12401A	350	1CT:1CT	35	0.5uH	1500Vrms

SCHEMATICS



(Unit: mm)

MECHANICAL SPECIFICATIONS



10/100/1000 BASE-T TRANSFORMER MODULES

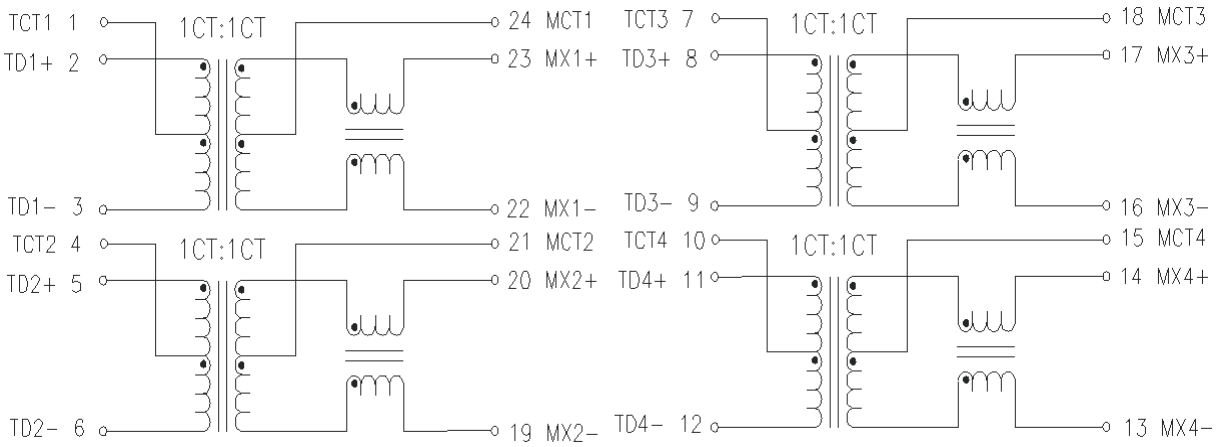
- Compliant With IEEE 802.3 standards for 10/100/1000 Base-T
- Compliance with ROHS requirements
- Operating Temperature range: 0 ℃ ~+70 ℃
- Storage Temperature range: -25 ℃ ~+125 ℃
- Package: 700PCS/One Roll; 4200PCS/Two Box Carton

ELECTRICAL SPECIFICATIONS @ 25°C

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)					DCMR (dB Min)	Crosstalk (dB Min)
Freq.	1-100 MHz	1-30 MHz	40 MHz	50 MHz	60-80 MHz	100 MHz	1-100 MHz	1-100 MHZ
AEB12401H	-1.1	-18	-14.4	-13.1	-12	-10	-30	-30

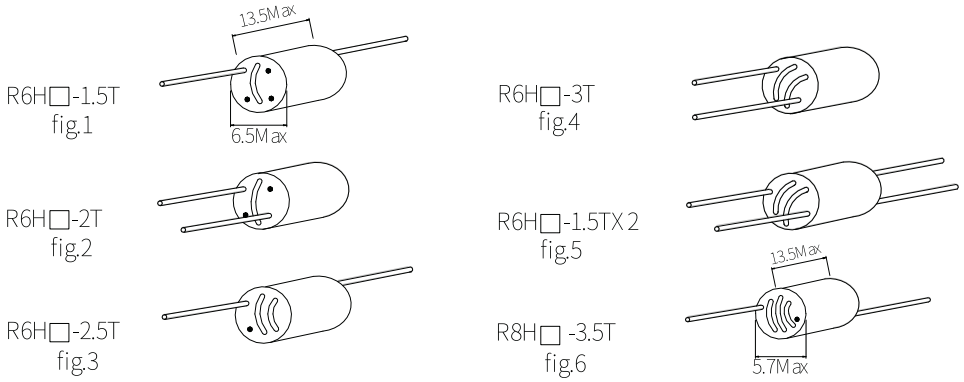
Continue					
Part Number	OCL(uH Min) @100KHz/0.1V with DC8mA Bias	Turns Ratio (TX:RX±5%)	Cw/w (pF Max)	L.L(uH Max) @100KHz/0.1V	Hi-pot
AEB12401H	350	1CT:1CT	35	0.5uH	1500Vrms

SCHEMATICS



EXTERNAL DIMENSIONS

(Unit:m/m)



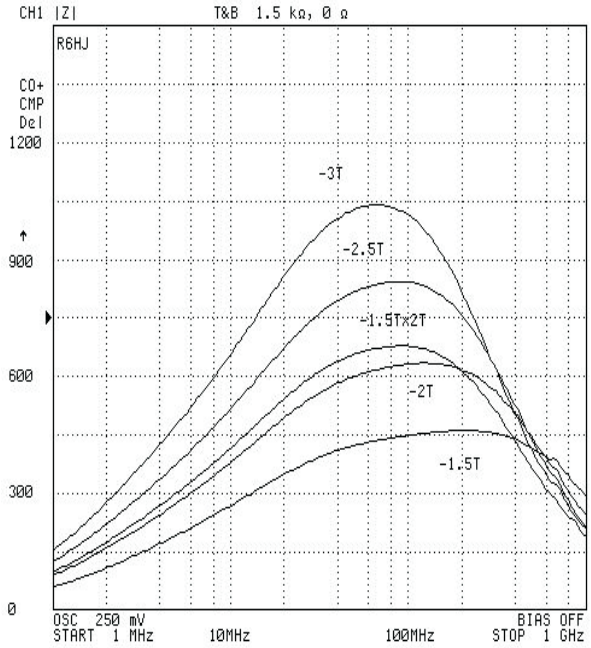
ORDERING CODES AND CHARACTERISTICS

Part Number	Core Material	Winding Turn	Impedance (Ω)Min.	Test Frequency (MHz)	Fig
AER6H-1.5T	J	1.5	330	120	1
AER6H-2T	J	2	465	90	2
AER6H-2.5T	J	2.5	600	60	3
AER6H-3T	J	3	750	50	4
AER6H-1.5T×2S	J	1.5×2	500	80	5
AER8H-3.5T	J	3.5T	750	100	6

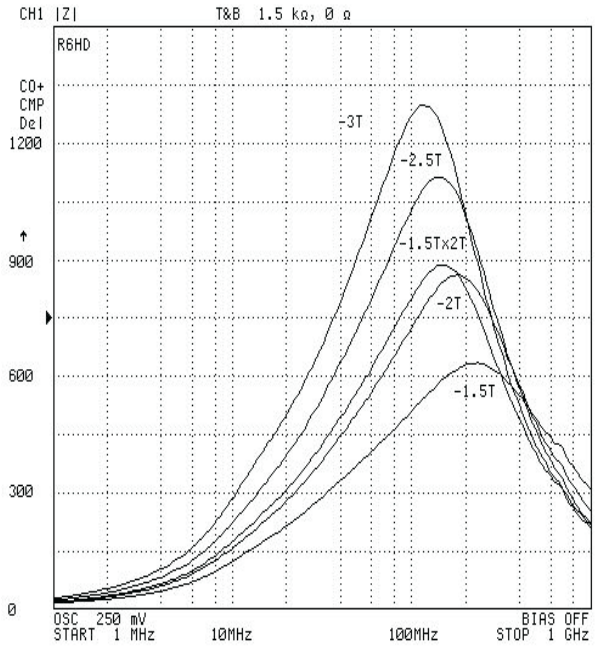
Features

- The R6H/R8H type wide-band chokes are mainly used in the high current carrying PC boards to filter the EMI from the outsides. Taping & Reel version are available for automatic insertion.

Impedance & Frequency



PARALLEL



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