

AH10D30 TYPE

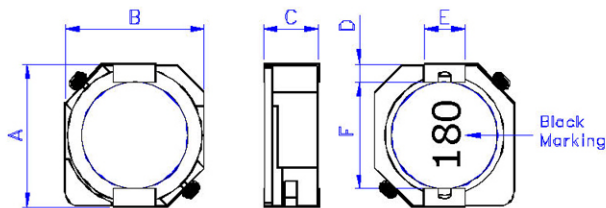
●FEATURE

1. High current capacity and Low DCR
2. Magnetic shielded for low raditation

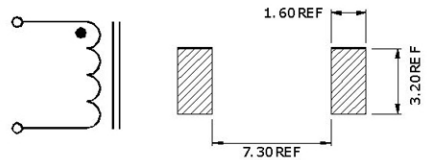
●Applications

1. Portable telephone, Personal Computer
2. Notebook, and other electronic equipment

●Shape and Dimension



●Schematics and Land Patterns(mm)



A=10.40m/m MAX ; B=10.30m/m MAX ; C=3.00m/m MAX ; D=1.20m/m REF. ;
 E=3.00m/m REF ; F=7.70m/m MAX

●Specification

Part Number	L (uH)	Marking	DCR (Ω Max)	Isat (A)	Irms (A)
AH10D30-R80□	0.8	R80	5.7m	11.2	8.30
AH10D30-1R5□	1.5	1R5	11.0m	8.00	5.80
AH10D30-2R2□	2.2	2R2	16.9m	6.70	5.10
AH10D30-3R3□	3.3	3R3	21m	5.56	4.70
AH10D30-4R7□	4.7	4R7	30m	4.65	4.00
AH10D30-6R8□	6.8	6R8	35m	3.84	3.60
AH10D30-8R2□	8.2	8R2	50m	3.54	3.00
AH10D30-100□	10	100	59m	3.18	2.80
AH10D30-150□	15	150	91m	2.60	2.05
AH10D30-220□	22	220	143m	2.16	1.60
AH10D30-330□	33	330	202m	1.74	1.35
AH10D30-470□	47	470	299m	1.43	1.20
AH10D30-560□	56	560	325m	1.36	1.15
AH10D30-680□	68	680	429m	1.22	0.95
AH10D30-820□	82	820	494m	1.14	0.80
AH10D30-101□	100	101	683m	1.02	0.70

Part Number	L (uH)	Marking	DCR (Ω Max)	Isat (A)	Irms (A)
AH10D30-121□	120	121	754m	0.89	0.65
AH10D30-151□	150	151	871m	0.84	0.51

Note1. Measurement frequency of Inductance value : at 100KHz

Note2. Measurement ambient temperature of L, DCR and IDC : at 25°C

Note3. Isat: DC current at which the inductance drops 35%(max) from its value without current

Note4. Irms: Average current for 40°C temperature rise from 25°C ambient

Note5. Inductance tolerance: N: $\pm 30\%$; M: $\pm 20\%$

Note6. Ordering Code: TYPE NAME: AH10D30

Main Inductance: 100 (10uH)

Tolerance : M ($\pm 20\%$)

Note7. Packaging: Taping ; Quantity: AH10D30:1000 Pieces/reel

AH10D40 TYPE

●FEATURE

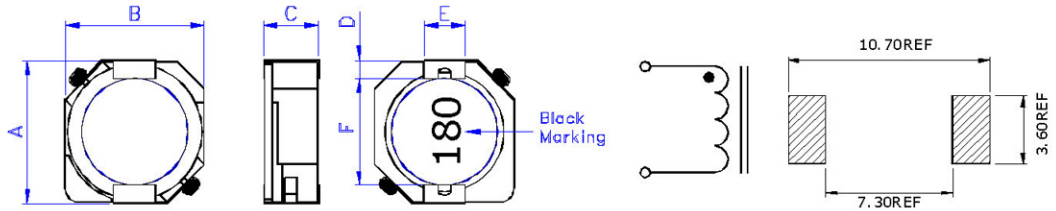
1. High current capacity ,Low DCR and magnetic shielded for low raditation

●Applications

1. Portable telephone,Notebook, and other electronic equipment

●Shape and Dimension

●Schematics and Land Patterns(mm)



A= 10.10±0.30 m/m ; B=10.0±0.30m/m ; C=4.00m/m MAX ; D=1.20m/m REF. ;
E=3.00m/m REF ; F=7.70m/m MAX

●Specification

Part Number	L (uH)	Marking	DCR (ΩMax)	Isat (A)	Irms (A)
AH10D40-1R5□	1.5	1R5	8.1m	10.0	6.50
AH10D40-2R5□	2.5	2R5	10.5m	7.50	6.10
AH10D40-3R3□	3.3	3R3	13m	6.10	5.60
AH10D40-3R8□	3.8	3R8	13m	6.00	5.50
AH10D40-5R2□	5.2	5R2	22m	5.50	5.40
AH10D40-6R8□	6.8	6R8	27m	4.80	4.50
AH10D40-7R0□	7.0	7R0	27m	4.80	4.50
AH10D40-100□	10	100	35m	4.40	3.80
AH10D40-150□	15	150	50m	3.60	3.10
AH10D40-220□	22	220	73m	2.90	2.50
AH10D40-330□	33	330	93m	2.30	2.20
AH10D40-470□	47	470	0.128	2.10	1.90
AH10D40-680□	68	680	0.213	1.50	1.42
AH10D40-101□	100	101	0.304	1.35	1.25
AH10D40-151□	150	151	0.506	1.15	0.85
AH10D40-221□	220	221	0.756	0.92	0.70
AH10D40-331□	330	331	1.090	0.70	0.52

Note1. Measurement frequency of Inductance value : at 100KHz, 0.25V

Note2. Measurement ambient temperature of L, DCR and IDC : at 25°C

Note3. Isat: DC current at which the inductance drops 35%(max) from its value without current

Note4. Irms: Average current for 30°C temperature rise from 25°C ambient

Note5. Inductance tolerance: N: $\pm 30\%$; M: $\pm 20\%$

Note6. Ordering Code: TYPE NAME: AH10D40

Main Inductance: 100 (10uH)

Tolerance : M ($\pm 20\%$)

Note7.Packaging: Taping ; Quantity: AH10D40:1000 Pieces/reel

TPRH 10D50 TYPE

●FEATURE

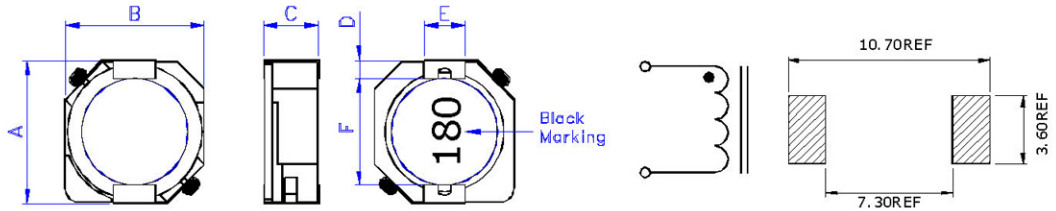
1. High current capacity ,Low DCR and magnetic shielded for low raditation

●Applications

1. Portable telephone,Notebook, and other electronic equipment

●Shape and Dimension

●Schematics and Land Patterns(mm)



A=10.10±0.30m/m ; B=10.0±0.30m/m ; C=5.10m/m MAX ; D=1.20m/m REF. ;

E=3.00m/m REF ; F=7.70m/m MAX

●Specification

Part Number	L (uH)	Marking	DCR (ΩMax)	Isat (A)	Irms (A)
AH10D50-R80□	0.8	R80	4.3m	13.5	9.50
AH10D50-1R5□	1.5	1R5	5.8m	10.5	8.30
AH10D50-2R2□	2.2	2R2	7.2m	9.25	7.50
AH10D50-3R3□	3.3	3R3	10.4m	7.80	6.50
AH10D50-4R7□	4.7	4R7	12.3m	6.40	6.10
AH10D50-6R8□	6.8	6R8	18m	5.40	5.40
AH10D50-8R2□	8.2	8R2	20m	4.85	5.00
AH10D50-100□	10	100	26m	4.45	4.45
AH10D50-120□	12	120	33m	4.00	3.80
AH10D50-150□	15	150	41m	3.60	3.40
AH10D50-180□	18	180	46m	3.20	3.10
AH10D50-220□	22	220	61m	2.95	2.90
AH10D50-270□	27	270	69m	2.70	2.60
AH10D50-330□	33	330	84m	2.40	2.50
AH10D50-390□	39	390	106m	2.30	2.25
AH10D50-470□	47	470	130m	2.00	2.00
AH10D50-560□	56	560	149m	1.90	1.90
AH10D50-680□	68	680	201m	1.65	1.60
AH10D50-820□	82	820	227m	1.50	1.45

Part Number	L (uH)	Marking	DCR (Ω Max)	Isat (A)	Irms (A)
AH10D50-101□	100	101	253m	1.35	1.35
AH10D50-121□	120	121	303m	1.28	1.18
AH10D50-151□	150	151	370m	1.12	1.10
AH10D50-181□	180	181	419m	1.04	1.00
AH10D50-221□	220	221	500m	0.94	0.94
AH10D50-271□	270	271	672m	0.84	0.80
AH10D50-331□	330	331	812m	0.75	0.73
AH10D50-391□	390	391	953m	0.70	0.70
AH10D50-471□	470	471	1.29	0.60	0.54
AH10D50-561□	560	561	1.43	0.54	0.52
AH10D50-681□	680	681	1.60	0.52	0.51
AH10D50-821□	820	821	1.77	0.50	0.48
AH10D50-102□	1000	102	1.99	0.48	0.42

Note1. Measurement frequency of Inductance value : at 100KHz, 0.25V

Note2. Measurement ambient temperature of L, DCR and IDC : at 25°C

Note3. Isat: DC current at which the inductance drops 35%(max) from its value without current

Note4. Irms: Average current for 40°C temperature rise from 25°C ambient

Note5. Inductance tolerance: N: $\pm 30\%$; M: $\pm 20\%$

Note6. Ordering Code: TYPE NAME: AH10D50

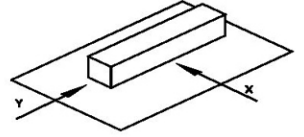
Main Inductance: 100 (10uH)

Tolerance : M ($\pm 20\%$)

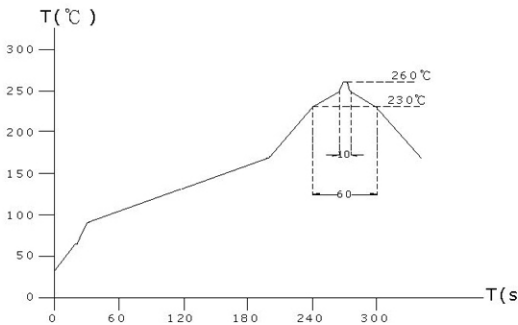
Note7. Packaging: Taping ; Quantity: AH10D50:750 Pieces/reel

GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO $+85^{\circ}\text{C}$ (Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y withstanding at below conditions.
Terminal should not peel off. (refer to figure at right) 5. 0N 60 sec.
4. Insulating resistance: Over $100\text{M}\Omega$ at 100V D.C. between coil and core.
5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core.
6. Temperature characteristics: Inductance coefficient $(0\sim 2,000)\times 10^{-6}/^{\circ}\text{C}$ ($-25\sim +80^{\circ}\text{C}$).
7. Humidity characteristics (Moisture Resistance): Inductance deviation within $\pm 5\%$, after 96 hours in $90\sim 95\%$ relative humidity at $40 \pm 2^{\circ}\text{C}$ and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within $\pm 5\%$, after vibration for 1 hour. In each of three orientations at sweep vibration ($10\sim 55\sim 10$ Hz) with 1.5mm P-P amplitudes.
9. Shock resistance: Inductance deviation within $\pm 5\%$, after being dropped once with 981m/s^2 (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.
10. Resistance to Soldering Heat: 260°C , 10 seconds (See attached recommend reflow)
11. Storage environment: Storage condition: Temperature Range: $10^{\circ}\text{C} \sim 35^{\circ}\text{C}$ (Generally: $21^{\circ}\text{C} \sim 31^{\circ}\text{C}$) , Humidity Range: $50\% \sim 80\% \text{RH}$ (Generally: $65\% \sim 75\%$) ; Transportation condition: Temperature Range: $-35^{\circ}\text{C} \sim 85^{\circ}\text{C}$, Humidity Range: $50\% \sim 95\% \text{RH}$
12. Use components within 6 months. If 6 months or more have elapsed, check solderability before use.
13. Reflow profile recommend:



Lead-free heat endurance test



Lead-free the recommended reflow condition

