

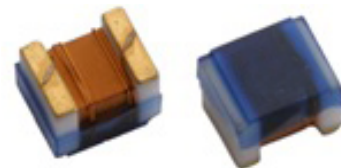
Wire Wound Inductors (Ferrite Base)

AISC-1210HS

MSL level: 2 (This part is packed with dry packaging)



RoHS
Compliant



3.20 x 3.05 x 1.30 mm

FEATURES:

- Excellent solderability and resistance soldering heat.
- Suitable for RoHS compliant reflow.
- High reliability and suitable for surface mount assembly.
- Wide range of inductance value are available.
- Small in tolerance from $\pm 10\%$.

APPLICATIONS:

- Notebooks, PC's,
- Cellular phone backlight, Inverter and etc.

ELECTRICAL SPECIFICATIONS:

PARAMETERS

ABRACON P/N:	AISC-01210HS Series
Operating temperature:	-40°C to +85°C
Storage temperature:	-10°C to +40°C, 20% to 70% RH

Abracon Part Number	L (μ H)	Tolerance (K. M)	Q Min	L, Q Test Freq (kHz/MHz)	SRF Min (MHz)	DCR Max (Ω)	I _{SAT} Max (mA)	I _{DC} Max (mA)
AISC-1210HS-2R2	2.2	K. M	10	100 / 1	150	0.5	850	800
AISC-1210HS-2R7	2.7	K. M	10	100 / 1	120	0.6	750	700
AISC-1210HS-3R3	3.3	K. M	10	100 / 1	100	0.75	700	650
AISC-1210HS-3R9	3.9	K. M	10	100 / 1	90	0.8	650	600
AISC-1210HS-4R7	4.7	K. M	10	100 / 1	80	0.95	600	550
AISC-1210HS-5R6	5.6	K. M	10	100 / 1	65	1	550	520
AISC-1210HS-6R8	6.8	K. M	10	100 / 1	55	1.1	500	480
AISC-1210HS-8R2	8.2	K. M	10	100 / 1	40	1.3	480	450
AISC-1210HS-100	10	K. M	10	100 / 1	36	1.5	450	430
AISC-1210HS-120	12	K. M	10	100 / 1	34	1.6	420	400
AISC-1210HS-150	15	K. M	10	100 / 1	32	1.9	400	350
AISC-1210HS-180	18	K. M	10	100 / 1	30	2.9	350	320
AISC-1210HS-220	22	K. M	10	100 / 1	30	3.5	320	300
AISC-1210HS-270	27	K. M	10	100 / 1	25	4.2	280	250
AISC-1210HS-330	33	K. M	10	100 / 1	20	5	250	220

Test Equipment:

1. Inductance is measured in HP-4284A precision LCR meter with SMD-A fixture.
2. Q factor is measured in HP-4284A precision LCR meter with SMD-A fixture.
3. SRF is measured in Agilent E-5071B Network Analyzer.
4. RDC is measured in HP-4338B milliohm meter.
5. I_{sat}: Based on inductance change ($\Delta L/L_0 : \leq -10\%$)
6. I_{DC}: Based on temperature rise ($\Delta T : 25^\circ\text{C TYP.}$)

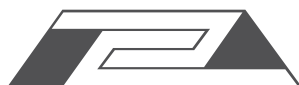
Unless otherwise specified, the standard range of atmospheric condition for making measurement and test are as follows:

Ambient Temperature : 25°C (20°C) $\pm$ 2°C

Relative Humidity : 60% to 70%

Air Pressure : 86Kpa to 106Kpa

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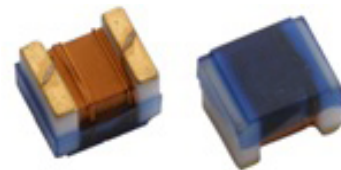
Revised: 12.08.11

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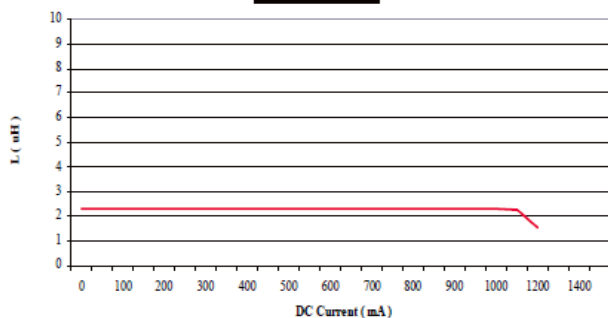


3.20 x 3.05 x 1.30 mm

ELECTRICAL CHARACTERISTICS

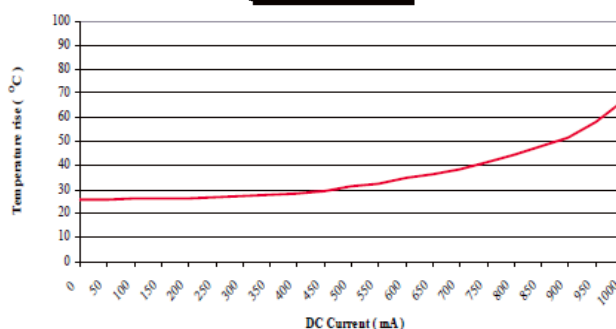
AISC-1210HS-2R2K

L Vs Isat Chart



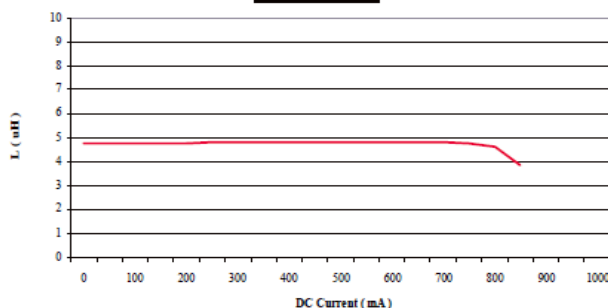
AISC-1210HS-2R2K

Idc Vs Temperature



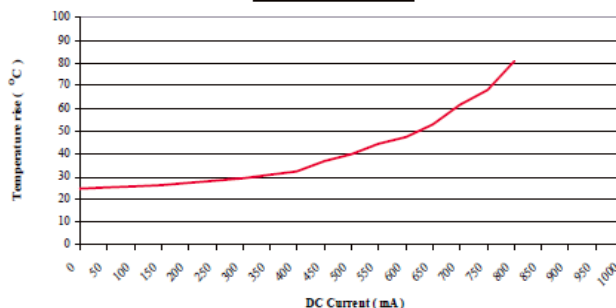
AISC-1210HS-4R7K

L Vs Isat Chart



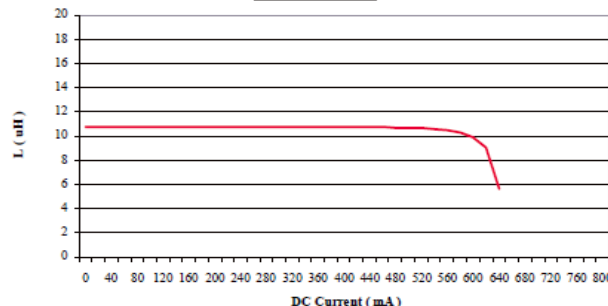
AISC-1210HS-4R7K

Idc Vs Temperature



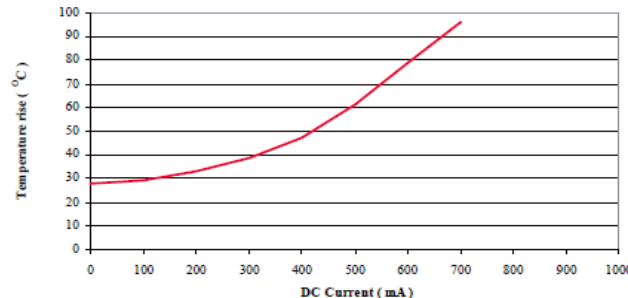
AISC-1210HS-100K

L Vs Isat Chart



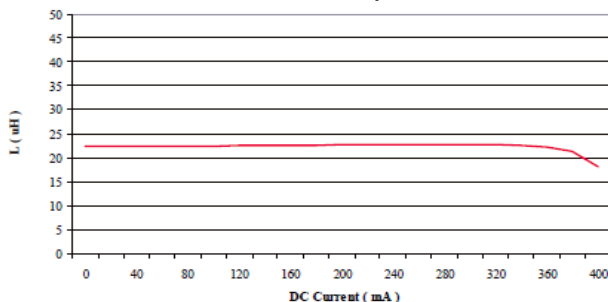
AISC-1210HS-100K

Idc Vs Temperature



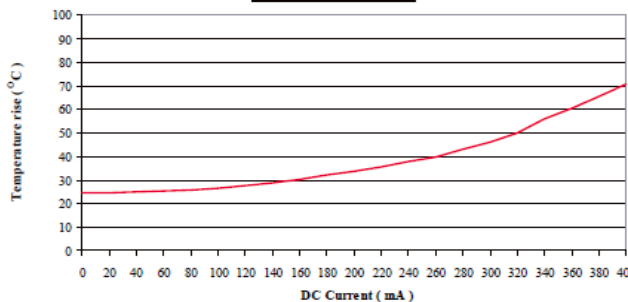
AISC-1210HS-220K

L Vs Isat Chart



AISC-1210HS-220K

Idc Vs Temperature

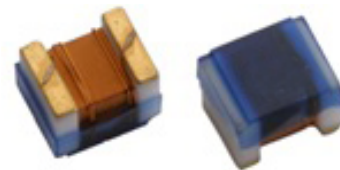


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PART NUMBER IDENTIFICATION

AISC-1210HS- -

Inductance Code

Please refer to the table

Tolerance Code

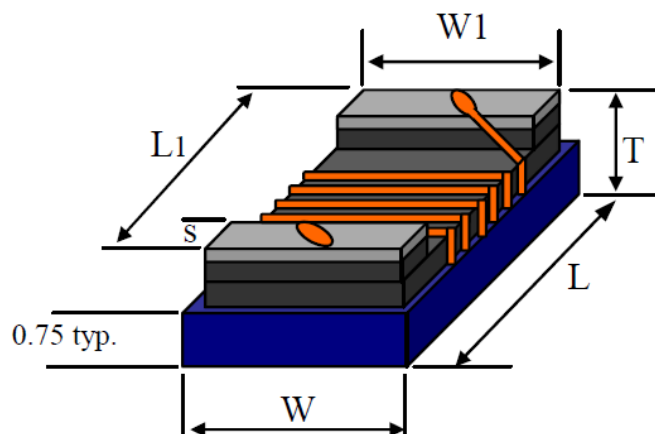
K: $\pm 10\%$

M: $\pm 20\%$

Packaging

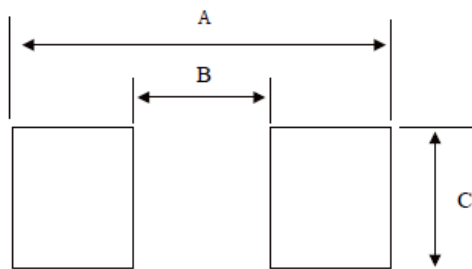
T2: Tape & Reel (2k pcs/Reel)

OUTLINE DIMENSIONS



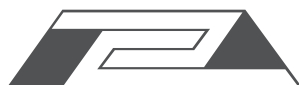
L	L1	W	W1	T	s
3.20 $\pm$ 0.30 [0.126 $\pm$ 0.012]	3.05 $\pm$ 0.10 [0.12 $\pm$ 0.004]	2.50 $\pm$ 0.30 [0.098 $\pm$ 0.012]	2.40 $\pm$ 0.10 [0.094 $\pm$ 0.004]	1.30 Max. [0.051 Max.]	0.50 $\pm$ 0.10 [0.02 $\pm$ 0.004]

Recommended Land Pattern



A	B	C
4.00	1.70	2.82

Dimension: mm [inch]

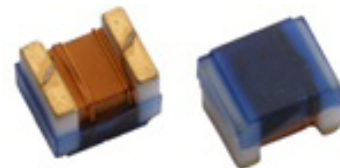


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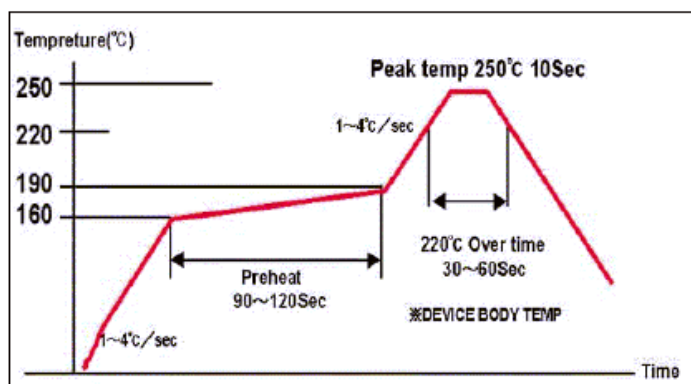


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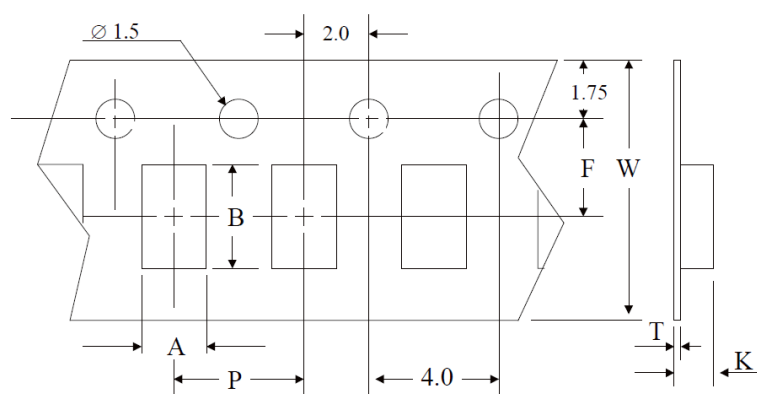


3.20 x 3.05 x 1.30 mm

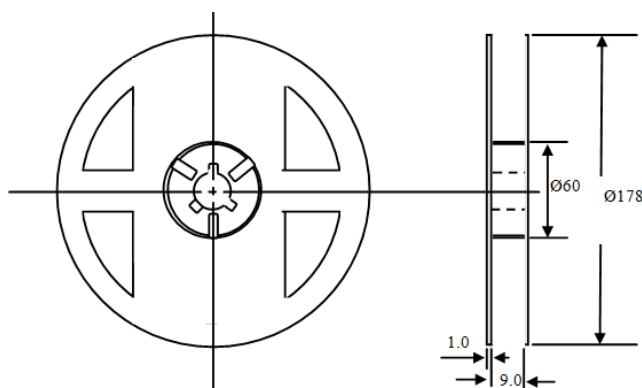
REFLOW PROFILE



TAPE & REEL: T2= tape and reel (2,000pcs/reel)



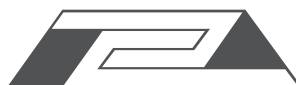
A	B	P	F	K	T	W
2.69	3.56	4.00	3.50	1.42	0.22	8.00



Dimension: mm

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Revised: 12.08.11

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