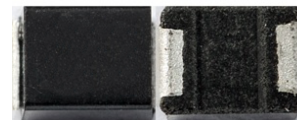


SMD MOLDED WOUND CHIP INDUCTOR

AIMS-1812H



RoHS/RoHS II compliant



4.2 x 3.2 x 3.2mm

FEATURES:

- High current version of AISM-1812 with high Q
- Exceptionally reliable over wide operating temperature and under humid environment
- Resilient to mechanical shocks
- Terminals constructed to withstand excessive pulling force
- Suitable for RoHS compliant reflow soldering

APPLICATIONS:

- VCR, Video Camera
- LCD TV, portable VCR
- HDD

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N:	AISM-1812H-xxx Series
Operating temperature	-40°C to +125°C
Storage temperature:	+5°C to +40°C, Humidity < 70%RH

Part No. AISM-1812H- Inductance Code	L(μH)	Tolerance	Q	Test Freq.	SRF(MHz)	DCR(Ω)	I _{dc} (mA)
			(min)	(MHz)	(min)	(max)	(max)
AISM-1812H-1R0	1.0	K, M	10	7.96	200	0.11	1050
AISM-1812H-1R2	1.2	K, M	10	7.96	160	0.12	1000
AISM-1812H-1R5	1.5	K, M	10	7.96	130	0.15	950
AISM-1812H-1R8	1.8	K, M	10	7.96	100	0.16	900
AISM-1812H-2R2	2.2	K, M	10	7.96	80	0.18	850
AISM-1812H-2R7	2.7	K, M	10	7.96	60	0.20	800
AISM-1812H-3R3	3.3	K, M	10	7.96	45	0.22	750
AISM-1812H-3R9	3.9	K, M	10	7.96	40	0.24	700
AISM-1812H-4R7	4.7	K, M	10	7.96	35	0.27	650
AISM-1812H-5R6	5.6	K, M	10	7.96	30	0.30	650
AISM-1812H-6R8	6.8	K, M	10	7.96	28	0.35	600
AISM-1812H-8R2	8.2	K, M	10	7.96	25	0.40	600
AISM-1812H-100	10	K, M	10	2.52	22	0.50	550
AISM-1812H-120	12	K, M	10	2.52	21	0.60	500
AISM-1812H-150	15	K, M	10	2.52	20	0.70	450
AISM-1812H-180	18	K, M	10	2.52	19	0.80	400
AISM-1812H-220	22	K, M	10	2.52	18	0.90	370
AISM-1812H-270	27	K, M	10	2.52	16	1.20	330
AISM-1812H-330	33	K, M	10	2.52	14	1.40	300
AISM-1812H-390	39	K, M	10	2.52	12	1.60	280
AISM-1812H-470	47	K, M	10	2.52	11.5	1.90	260
AISM-1812H-560	56	K, M	10	2.52	11.0	2.20	240
AISM-1812H-680	68	K, M	10	2.52	10.0	2.60	220
AISM-1812H-820	82	K, M	10	2.52	9.0	3.50	200
AISM-1812H-101	100	K, M	20	0.796	8.0	4.00	180
AISM-1812H-121	120	K, M	20	0.796	7.5	4.50	160
AISM-1812H-151	150	K, M	20	0.796	7	6.50	140
AISM-1812H-181	180	K, M	20	0.796	6.5	7.50	120
AISM-1812H-221	220	K, M	20	0.796	5.5	9.00	120
AISM-1812H-271	270	K, M	20	0.796	5	11.00	100
AISM-1812H-331	330	K, M	20	0.796	4	13.00	90

Test Conditions

Isat: $\Delta L/L$ (initial) $\geq -10\%$

ABRACON IS
ISO9001:2008
CERTIFIED



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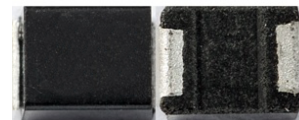
Revised: 03.19.14

SMD MOLDED WOUND CHIP INDUCTOR

AIMS-1812H

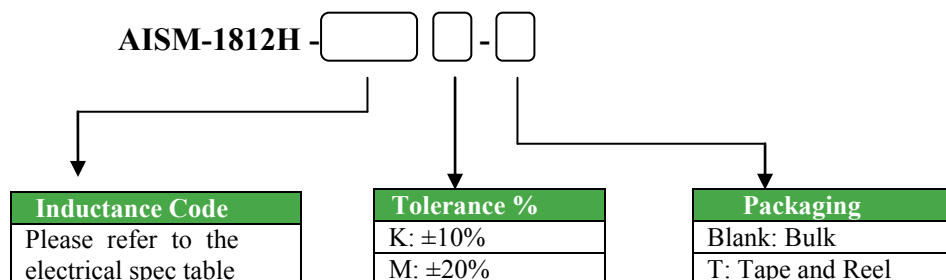


RoHS/RoHS II compliant

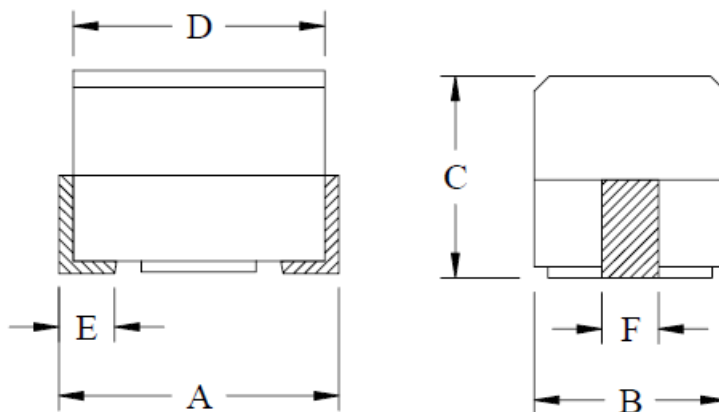


4.2 x 3.2 x 3.2mm

OPTIONS & PART IDENTIFICATION:

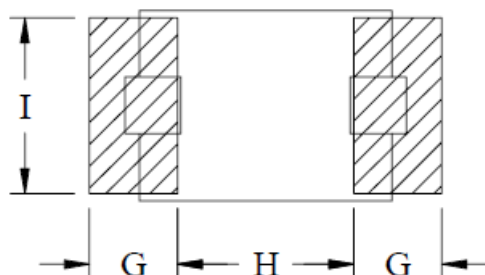


OUTLINE DIMENSION:



A	B	C	D	E	F
4.5±0.30	3.2±0.20	3.2±0.20	4.2±0.20	1.00	1.20

Recommended Land Pattern



G	H	I
1.50	3.00	2.80

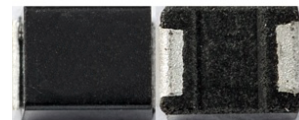
Dimension: mm

SMD MOLDED WOUND CHIP INDUCTOR

AIMS-1812H

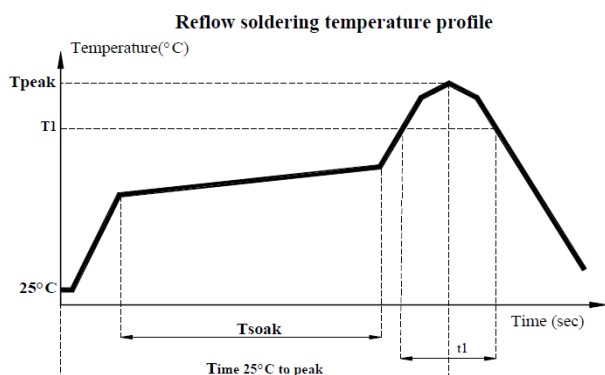


RoHS/RoHS II compliant



4.2 x 3.2 x 3.2mm

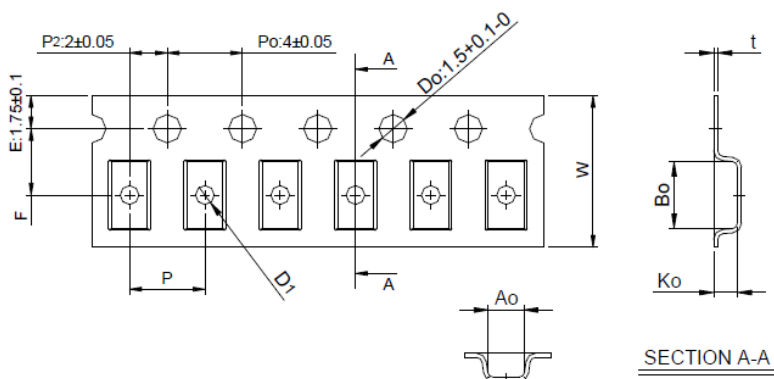
REFLOW PROFILE:



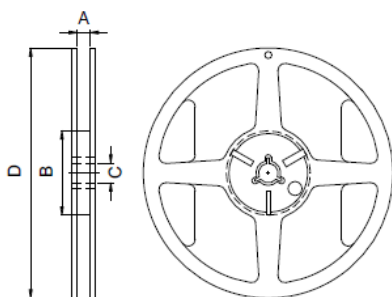
Item	Mark	Spec
Temperature rise gradient		3°C/sec (max)
Heating time	Tsoak	50s ~ 150s
Heating temperature		120°C ~ 180°C
Time maintained above: -Temperature (T1) -Time (t1)	T1/t1	217°C / 60 sec
Peak temperature	Tpeak	250 °C max.
Time 25°C to peak Temperature		6 minutes max.

TAPE & REEL:

Packaging: 500pcs/reel



A0	B0	K0	P	F	W	t
3.5±0.1	4.9±0.1	3.4±0.1	8±0.1	5.5±0.1	12±0.2	0.3±0.05



A	B	C	D
13.5±0.5	60±2.0	13.5±0.5	178±2.0

Dimensions: mm

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

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