SMD MOLDED WOUND CHIP INDUCTOR



4.2 x 3.2 x 3.2mm

AISM-1812H

Pb RoHS/RoHS II compliant

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 (min)	Test Freq. (MHz)	SRF(MHz) (min)	DCR(Ω) (max)	Idc(mA) (max)
AISM-1812H-1R0	1.0	K	10	7.96	100	0.11	1050
AISM-1812H-1R2	1.2	K	10	7.96	90	0.12	1000
AISM-1812H-1R5	1.5	K	10	7.96	80	0.15	950
AISM-1812H-1R8	1.8	K	10	7.96	70	0.16	900
AISM-1812H-2R2	2.2	K	10	7.96	65	0.18	850
AISM-1812H-2R7	2.7	K	10	7.96	60	0.20	800
AISM-1812H-3R3	3.3	K	10	7.96	45	0.22	750
AISM-1812H-3R9	3.9	K	10	7.96	40	0.24	700
AISM-1812H-4R7	4.7	K	10	7.96	35	0.27	650
AISM-1812H-5R6	5.6	K	10	7.96	30	0.30	650
AISM-1812H-6R8	6.8	K	10	7.96	28	0.35	600
AISM-1812H-8R2	8.2	K	10	7.96	25	0.40	600
AISM-1812H-100	10	K	10	2.52	22	0.50	550
AISM-1812H-120	12	K	10	2.52	21	0.60	500
AISM-1812H-150	15	K	10	2.52	20	0.70	450
AISM-1812H-180	18	K	10	2.52	19	0.80	400
AISM-1812H-220	22	K	10	2.52	18	0.90	370
AISM-1812H-270	27	K	10	2.52	16	1.20	330
AISM-1812H-330	33	K	10	2.52	14	1.40	300
AISM-1812H-390	39	K	10	2.52	12	1.60	280
AISM-1812H-470	47	K	10	2.52	11.5	1.90	260
AISM-1812H-560	56	K	10	2.52	11.0	2.20	240
AISM-1812H-680	68	K	10	2.52	10.0	2.60	220
AISM-1812H-820	82	K	10	2.52	9.0	3.50	200
AISM-1812H-101	100	K	20	0.796	8.0	4.00	180
AISM-1812H-121	120	K	20	0.796	7.5	4.50	160
AISM-1812H-151	150	K	20	0.796	7	6.50	140
AISM-1812H-181	180	K	20	0.796	6.5	7.50	120
AISM-1812H-221	220	K	20	0.796	5.5	9.00	120
AISM-1812H-271	270	K	20	0.796	5	11.00	100
AISM-1812H-331	330	K	20	0.796	4	13.00	90

Test Conditions
Isat: ΔL/L (initial) ≥ -10%

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ABRACON
5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 1-21-21

ABRACON IS ISO9001-2015 CERTIFIED

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AISM-1812H

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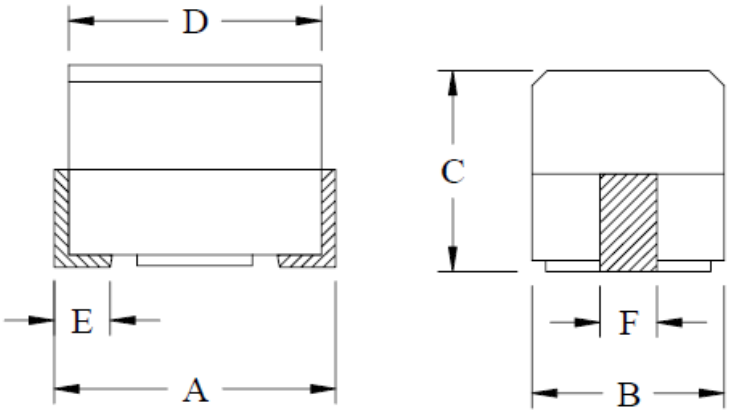
4.2 x 3.2 x 3.2mm

OPTIONS & PART IDENTIFICATION:

AISM-1812H - ☐ - ☐

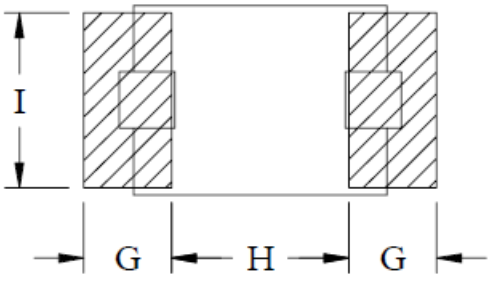
Inductance Code	Tolerance %	Packaging
Please refer to the electrical spec table	K: ±10%	Blank: Bulk T: Tape and Reel

OUTLINE DIMENSION:



A	B	C	D	E	F
4.5±0.30	3.2±0.20	3.2±0.20	4.2±0.20	0.6±0.10	2.6±0.10

Recommended Land Pattern



G	H	I
1.50	3.00	2.80

Dimension: mm

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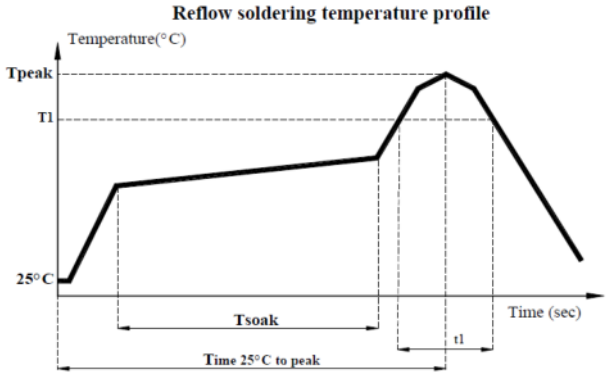
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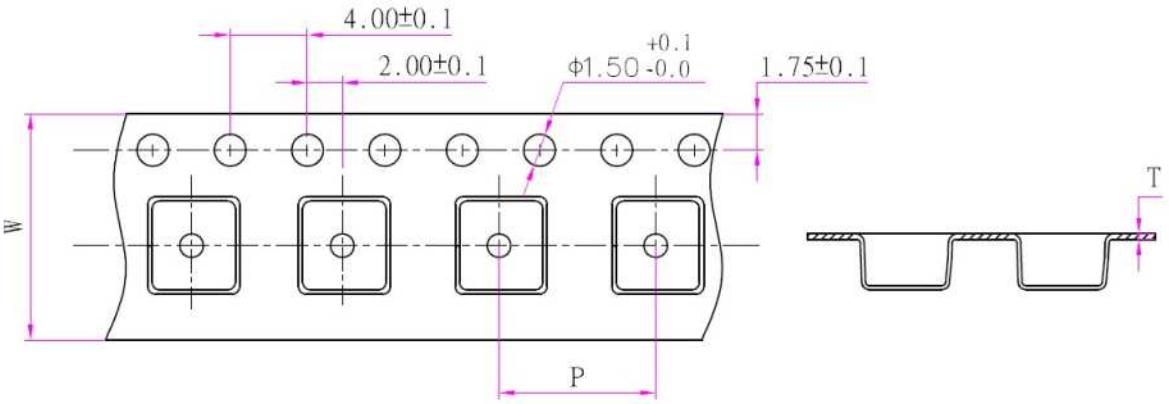
REFLOW PROFILE:



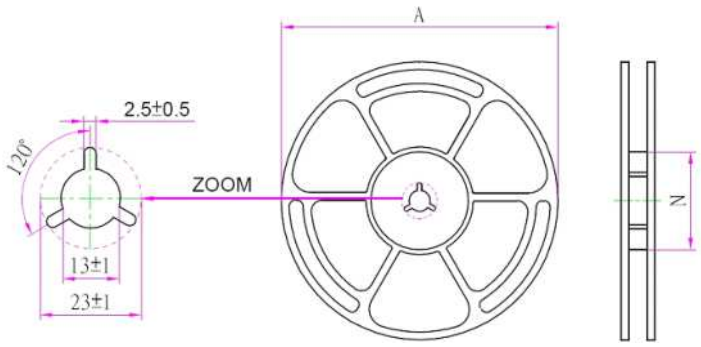
Item	Mark	Spec
Temperature rise gradient		3℃/sec (max)
Heating time	Tsoak	50s ～ 150s
Heating temperature		120℃～180℃
Time maintained above: -Temperature (T1) -Time (t1)	T1/t1	217°C /60 sec
Peak temperature	Tpeak	250 °C max.
Time 25℃ to peak Temperature		6 minutes max.

TAPE & REEL:

Packaging: 2,000 pcs/reel



P	T	W
8.0	0.30	12.0



A	N
330	100

Dimensions: mm

ATTENTION: Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applica tions. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent 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 LLC is required. Please contact Abracon LLC for more information.

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