



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SMD MOLDED WOUND CHIP INDUCTORS



3.2 x 2.5 x 2.2mm

AISM-1210



RoHS/RoHS II Compliant

FEATURES:

- High current rating coupled 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:

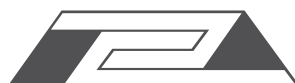
- VCRs, Video Cameras
- LCD TVs, portable VCRs
- Computer Products & Peripherals

ELECTRICAL SPECIFICATIONS:

PARAMETERS

ABRACON P/N:	AISM-1210-xxx Series
Operating temperature :	-40°C to + 85°C
Storage temperature :	+5°C to +40°C, Humidity < 70%RH

Part No. AISM-1210-Inductance Code	L(μH)	Tolerance	Q	Test Freq.	SRF(MHz)	DCR(Ω)	I _{dc} (mA)
			(min)	(MHz)	(min)	(max)	(max)
AISM-1210-10N	0.010	J, K, M	15	100	2500	0.13	450
AISM-1210-12N	0.012	J, K, M	17	100	2300	0.14	450
AISM-1210-15N	0.015	J, K, M	19	100	2100	0.16	450
AISM-1210-18N	0.018	J, K, M	21	100	1900	0.18	450
AISM-1210-22N	0.022	J, K, M	23	100	1700	0.20	450
AISM-1210-27N	0.027	J, K, M	23	100	1500	0.22	450
AISM-1210-33N	0.033	J, K, M	25	100	1400	0.24	450
AISM-1210-39N	0.039	J, K, M	25	100	1300	0.27	450
AISM-1210-47N	0.047	J, K, M	26	100	1200	0.30	450
AISM-1210-56N	0.056	J, K, M	26	100	1100	0.33	450
AISM-1210-68N	0.068	J, K, M	27	100	1000	0.36	450
AISM-1210-82N	0.082	J, K, M	27	100	900	0.40	450
AISM-1210-R10	0.10	J, K, M	28	100	700	0.44	450
AISM-1210-R12	0.12	J, K, M	30	25.2	500	0.22	450
AISM-1210-R15	0.15	J, K, M	30	25.2	450	0.25	450
AISM-1210-R18	0.18	J, K, M	30	25.2	400	0.28	450
AISM-1210-R22	0.22	J, K, M	30	25.2	350	0.32	450
AISM-1210-R27	0.27	J, K, M	30	25.2	320	0.36	450
AISM-1210-R33	0.33	J, K, M	30	25.2	300	0.40	450
AISM-1210-R39	0.39	J, K, M	30	25.2	250	0.45	450
AISM-1210-R47	0.47	J, K, M	30	25.2	220	0.50	450
AISM-1210-R56	0.56	J, K, M	30	25.2	180	0.55	450
AISM-1210-R68	0.68	J, K, M	30	25.2	160	0.60	450
AISM-1210-R82	0.82	J, K, M	30	25.2	140	0.65	450
AISM-1210-1R0	1.0	J, K, M	30	7.96	120	0.70	400
AISM-1210-1R2	1.2	J, K, M	30	7.96	100	0.75	390
AISM-1210-1R5	1.5	J, K, M	30	7.96	85	0.85	370
AISM-1210-1R8	1.8	J, K, M	30	7.96	80	0.90	350
AISM-1210-2R2	2.2	J, K, M	30	7.96	75	1.00	320
AISM-1210-2R7	2.7	J, K, M	30	7.96	70	1.10	290
AISM-1210-3R3	3.3	J, K, M	30	7.96	60	1.20	260
AISM-1210-3R9	3.9	J, K, M	30	7.96	55	1.30	250
AISM-1210-4R7	4.7	J, K, M	30	7.96	50	1.50	220
AISM-1210-5R6	5.6	J, K, M	30	7.96	45	1.60	200
AISM-1210-6R8	6.8	J, K, M	30	7.96	40	1.80	180
AISM-1210-8R2	8.2	J, K, M	30	7.96	35	2.0	170
AISM-1210-100	10	J, K, M	30	2.52	30	2.1	150
AISM-1210-120	12	J, K, M	30	2.52	20	2.5	140
AISM-1210-150	15	J, K, M	30	2.52	20	2.8	130



SMD MOLDED WOUND CHIP INDUCTORS



3.2 x 2.5 x 2.2mm

AIMS-1210

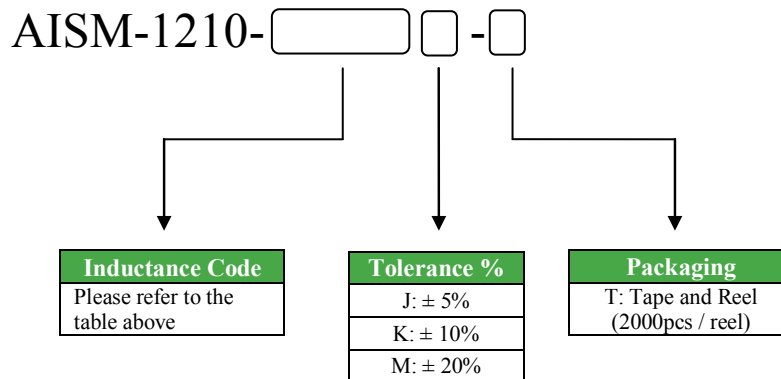
RoHS/RoHS II Compliant

Part No. AIMS-1210-Inductance Code	L(μH)	Tolerance	Q	Test Freq.	SRF(MHz)	DCR(Ω)	Idc(mA)
		(%)	(min)	(MHz)	(min)	(max)	(max)
AIMS-1210-180	18	J, K, M	30	2.52	20	3.3	120
AIMS-1210-220	22	J, K, M	30	2.52	20	3.7	110
AIMS-1210-270	27	J, K, M	30	2.52	18	5.0	80
AIMS-1210-330	33	J, K, M	30	2.52	17	5.6	70
AIMS-1210-390	39	J, K, M	30	2.52	16	6.4	65
AIMS-1210-470	47	J, K, M	30	2.52	15	7.0	60
AIMS-1210-560	56	J, K, M	30	2.52	13	8.0	55
AIMS-1210-680	68	J, K, M	30	2.52	12	9.0	50
AIMS-1210-820	82	J, K, M	30	2.52	11	10	45
AIMS-1210-101	100	J, K, M	20	0.796	10	10	40
AIMS-1210-121	120	J, K, M	20	0.796	9	11	70
AIMS-1210-151	150	J, K, M	20	0.796	7	15	65
AIMS-1210-181	180	J, K, M	20	0.796	7	17	60
AIMS-1210-221	220	J, K, M	20	0.796	6	21	50
AIMS-1210-271	270	J, K, M	20	0.796	5	28	45
AIMS-1210-331	330	J, K, M	20	0.796	5	34	40

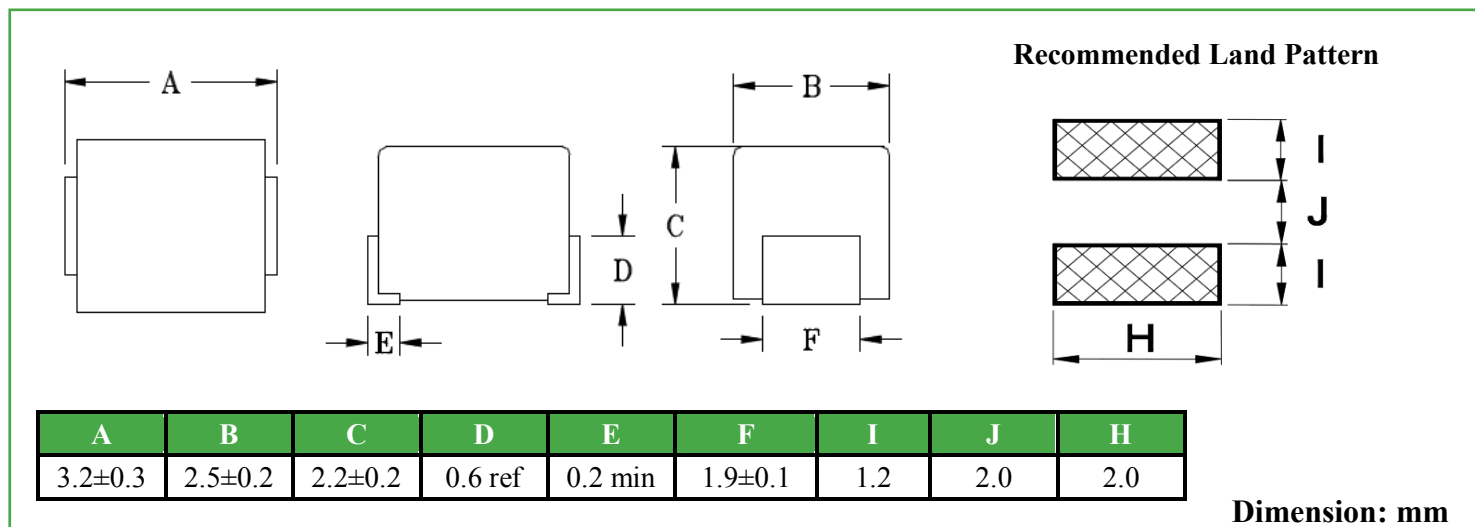
Test Conditions

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

PART NUMBER IDENTIFICATION



OUTLINE DIMENSIONS:



Dimension: mm

SMD MOLDED WOUND CHIP INDUCTORS

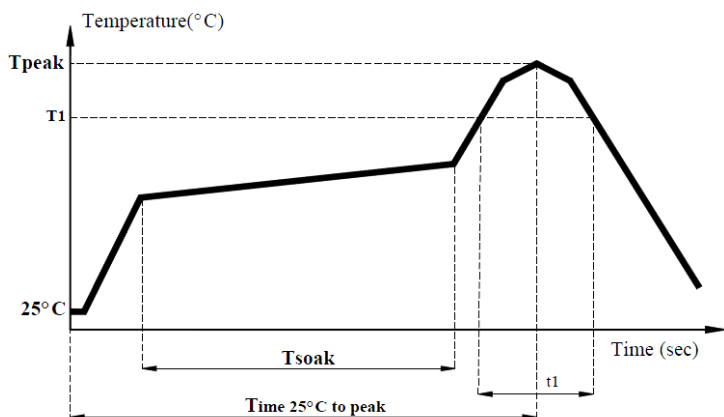


3.2 x 2.5 x 2.2mm

AIMS-1210

RoHS/RoHS II Compliant

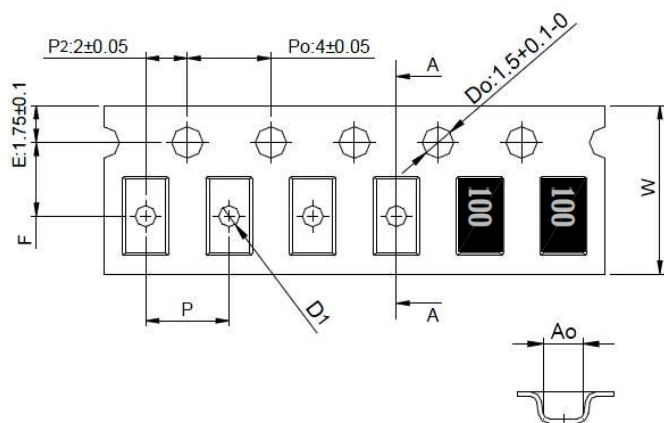
REFLOW PROFILE:



Item	mark	
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 max
Peak temperature	Tpeak	250 max.
Time 25°C to peak		6 minutes max.

TAPE & REEL::

T: 2,000pcs / reel



SECTION A-A

A0	B0	K0	P	F	W	t	A	B	C	D
2.88 ± 0.1	3.65 ± 0.1	2.5 ± 0.1	4 ± 0.1	3.5 ± 0.05	8 ± 0.2	0.25 ± 0.05	9.0 ± 0.5	60 ± 2.0	13.5 ± 0.5	178 ± 2.0

Dimension: mm

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