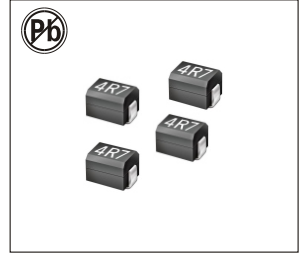


SURFACE MOUNT WOUND MOLDED CHIP INDUCTORS

AISM1210 SERIES



FEATURES:

- Lead-free materials is used for the plating on the terminals.
- The product uses metal terminals, which realize excellent connection reliability.
- High resistance to heat, humidity, mechanical shocks and presser. Accurate dimensions for automatically surface mounted.
- The product has good heat durability that withstands lead-free compatible reflow soldering conditions.

APPLICATIONS:

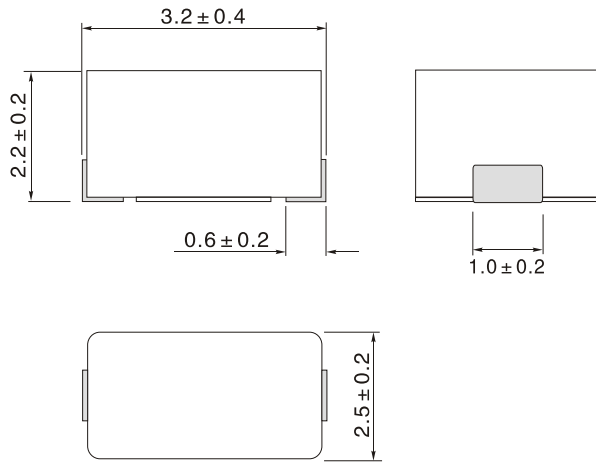
- Communication
- Equipment
- Instrument
- Video & audio

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (uH)	Inductance Tolerance (%)	Q min.	Test Frequency L,Q (MHz)	Self-resonant Frequency (MHz)min.	DC resistance (Ω) max.	Rated current. (mA)max.
AISM1210-R10 □	0.1	± 20, ± 10%	28	100	700	0.44	450
AISM1210-R12 □	0.12	± 20, ± 10%	30	25.2	500	0.22	450
AISM1210-R15 □	0.15	± 20, ± 10%	30	25.2	450	0.25	450
AISM1210-R18 □	0.18	± 20, ± 10%	30	25.2	400	0.28	450
AISM1210-R22 □	0.22	± 20, ± 10%	30	25.2	350	0.32	450
AISM1210-R27 □	0.27	± 20, ± 10%	30	25.2	320	0.36	450
AISM1210-R33 □	0.33	± 20, ± 10%	30	25.2	300	0.4	450
AISM1210-R39 □	0.39	± 20, ± 10%	30	25.2	250	0.45	450
AISM1210-R47 □	0.47	± 20, ± 10%	30	25.2	220	0.5	450
AISM1210-R56 □	0.56	± 20, ± 10%	30	25.2	180	0.55	450
AISM1210-R68 □	0.68	± 20, ± 10%	30	25.2	160	0.6	450
AISM1210-R82 □	0.82	± 20, ± 10%	30	25.2	140	0.65	450
AISM1210-1R0 □	1	± 10%, ± 5%	30	7.96	120	0.7	400
AISM1210-1R2 □	1.2	± 10%, ± 5%	30	7.96	100	0.75	390
AISM1210-1R5 □	1.5	± 10%, ± 5%	30	7.96	85	0.85	370
AISM1210-1R8 □	1.8	± 10%, ± 5%	30	7.96	80	0.9	350
AISM1210-2R2 □	2.2	± 10%, ± 5%	30	7.96	75	1	320
AISM1210-2R7 □	2.7	± 10%, ± 5%	30	7.96	70	1.1	290
AISM1210-3R3 □	3.3	± 10%, ± 5%	30	7.96	60	1.2	260
AISM1210-3R9 □	3.9	± 10%, ± 5%	30	7.96	55	1.3	250
AISM1210-4R7 □	4.7	± 10%, ± 5%	30	7.96	50	1.5	220
AISM1210-5R6 □	5.6	± 10%, ± 5%	30	7.96	45	1.6	200
AISM1210-6R8 □	6.8	± 10%, ± 5%	30	7.96	40	1.8	180
AISM1210-8R2 □	8.2	± 10%, ± 5%	30	7.96	35	2	170
AISM1210-100 □	10	± 10%, ± 5%	30	2.52	30	2.1	150
AISM1210-120 □	12	± 10%, ± 5%	30	2.52	20	2.5	140
AISM1210-150 □	15	± 10%, ± 5%	30	2.52	20	2.8	130
AISM1210-180 □	18	± 10%, ± 5%	30	2.52	20	3.3	120
AISM1210-220 □	22	± 10%, ± 5%	30	2.52	20	3.7	110
AISM1210-270 □	27	± 10%, ± 5%	30	2.52	20	5	80
AISM1210-330 □	33	± 10%, ± 5%	30	2.52	17	5.6	70
AISM1210-390 □	39	± 10%, ± 5%	30	2.52	16	6.4	65
AISM1210-470 □	47	± 10%, ± 5%	30	2.52	15	7	60
AISM1210-560 □	56	± 10%, ± 5%	30	2.52	13	8	55
AISM1210-680 □	68	± 10%, ± 5%	30	2.52	12	9	50
AISM1210-820 □	82	± 10%, ± 5%	30	2.52	11	10	45
AISM1210-101 □	100	± 10%, ± 5%	20	0.796	10	10	40
AISM1210-121 □	120	± 10%, ± 5%	20	0.796	10	11	70
AISM1210-151 □	150	± 10%, ± 5%	20	0.796	8	15	65
AISM1210-181 □	180	± 10%, ± 5%	20	0.796	7	17	60
AISM1210-221 □	220	± 10%, ± 5%	20	0.796	7	21	50

□ G= ± 2%, J= ± 5%, K= ± 10%, M= ± 20%, N= ± 30%

PHYSICAL CHARACTERISTICS



Winding



- Testing: (Equivalent acceptable)
- Inductance: HP4285A
- RDC: QuadTech 1880 Milliohmeter
- Q: HP4342A
- SRF: HP4291A
- Operating temperature: -25°C to +85°C
- Storage Temperature: -40°C to +85°C
- Resistance to soldering heat: 260°C for 10 seconds
- Marking: Inductance & Tolerance

INDUCTANCE VS FREQUENCY CURVE IMPEDANCE VS FREQUENCY CURVE

