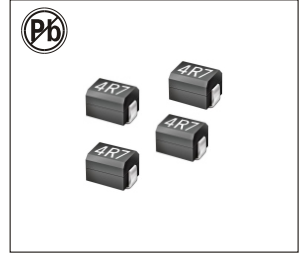


SURFACE MOUNT WOUND MOLDED CHIP INDUCTORS

AISM1812 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:

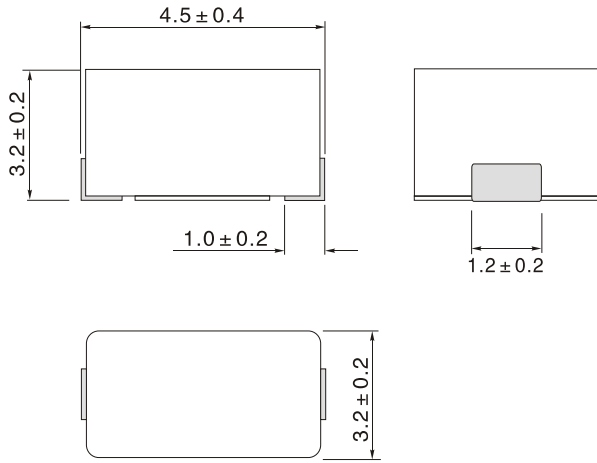
- Communication
- Equipment
- Instrument
- Video & audio

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.
AISM1812-R10 □	0.1	± 10%, ± 20%	35	25.2	300	0.18	800
AISM1812-R12 □	0.12	± 10%, ± 20%	35	25.2	280	0.20	770
AISM1812-R15 □	0.15	± 10%, ± 20%	35	25.2	250	0.22	730
AISM1812-R18 □	0.18	± 10%, ± 20%	35	25.2	220	0.24	700
AISM1812-R22 □	0.22	± 10%, ± 20%	40	25.2	200	0.25	665
AISM1812-R27 □	0.27	± 10%, ± 20%	40	25.2	180	0.26	635
AISM1812-R33 □	0.33	± 10%, ± 20%	40	25.2	165	0.28	605
AISM1812-R39 □	0.39	± 10%, ± 20%	40	25.2	150	0.30	575
AISM1812-R47 □	0.47	± 10%, ± 20%	40	25.2	145	0.32	545
AISM1812-R56 □	0.56	± 10%, ± 20%	40	25.2	140	0.36	520
AISM1812-R68 □	0.68	± 10%, ± 20%	40	25.2	135	0.40	500
AISM1812-R82 □	0.82	± 10%, ± 20%	40	25.2	130	0.45	475
AISM1812-1R0 □	1.0	± 10%, ± 20%	50	7.96	100	0.5	450
AISM1812-1R2 □	1.2	± 10%, ± 20%	50	7.96	80	0.55	430
AISM1812-1R5 □	1.5	± 10%, ± 20%	50	7.96	70	0.6	410
AISM1812-1R8 □	1.8	± 10%, ± 20%	50	7.96	60	0.65	390
AISM1812-2R2 □	2.2	± 10%, ± 20%	50	7.96	55	0.7	380
AISM1812-2R7 □	2.7	± 10%, ± 20%	50	7.96	50	0.75	370
AISM1812-3R3 □	3.3	± 10%, ± 20%	50	7.96	45	0.8	355
AISM1812-3R9 □	3.9	± 10%, ± 20%	50	7.96	40	0.9	330
AISM1812-4R7 □	4.7	± 10%, ± 20%	50	7.96	35	1	315
AISM1812-5R6 □	5.6	± 10%, ± 20%	50	7.96	33	1.1	300
AISM1812-6R8 □	6.8	± 10%, ± 20%	50	7.96	27	1.2	285
AISM1812-8R2 □	8.2	± 5%, ± 10%	50	7.96	25	1.4	270
AISM1812-100 □	10	± 5%, ± 10%	50	2.52	20	1.6	250
AISM1812-120 □	12	± 5%, ± 10%	50	2.52	18	2	225
AISM1812-150 □	15	± 5%, ± 10%	50	2.52	17	2.5	200
AISM1812-180 □	18	± 5%, ± 10%	50	2.52	15	2.8	190
AISM1812-220 □	22	± 5%, ± 10%	50	2.52	13	3.2	180
AISM1812-270 □	27	± 5%, ± 10%	50	2.52	12	3.6	170
AISM1812-330 □	33	± 5%, ± 10%	50	2.52	11	4	160
AISM1812-390 □	39	± 5%, ± 10%	50	2.52	10	4.5	150
AISM1812-470 □	47	± 5%, ± 10%	50	2.52	10	5	140
AISM1812-560 □	56	± 5%, ± 10%	50	2.52	9	5.5	135
AISM1812-680 □	68	± 5%, ± 10%	50	2.52	9	6	130
AISM1812-820 □	82	± 5%, ± 10%	50	2.52	8	7	120
AISM1812-101 □	100	± 5%, ± 10%	40	0.796	8	8	110
AISM1812-121 □	120	± 5%, ± 10%	40	0.796	6	8	110
AISM1812-151 □	150	± 5%, ± 10%	40	0.796	5	9	105
AISM1812-181 □	180	± 5%, ± 10%	40	0.796	5	9.5	102
AISM1812-221 □	220	± 5%, ± 10%	40	0.796	4	10	100
AISM1812-271 □	270	± 5%, ± 10%	40	0.796	4	12	92
AISM1812-331 □	330	± 5%, ± 10%	40	0.796	3.5	14	85
AISM1812-391 □	390	± 5%, ± 10%	40	0.796	3	18	80
AISM1812-471 □	470	± 5%, ± 10%	40	0.796	3	26	62
AISM1812-561 □	560	± 5%, ± 10%	30	0.796	3	30	50
AISM1812-681 □	680	± 5%, ± 10%	30	0.796	3	30	50
AISM1812-821 □	820	± 5%, ± 10%	30	0.796	2.5	35	30
AISM1812-102 □	1000	± 5%, ± 10%	20	0.252	2.5	40	30

□ 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

DC BIASE CURVE IMPEDANCE VS FREQUENCY CURVE

