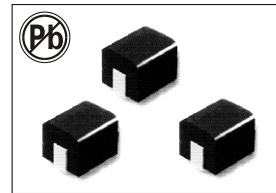


# SURFACE-MOUNT WOUND MOLDED CHIP INDUCTORS

## AIMS-1812 SERIES



### FEATURES:

- Molded construction
- Heat Resistant Molded Resin
- Excellent Mechanical Strength
- Excellent Solderability
- High Reliability
- Low Profile

### OPTIONS:

- Packaging: Tape & Reel is standard (Qty:5000pcs)  
Bulk packaging available for smaller quantities
- Tolerance: 10% and 5% is standard, tighter tolerances available

### COMMON APPLICATIONS:

- VCRs
- Video Cameras
- Communication System
- Automotive Systems
- Liquid Crystal Televisions
- Hard Disk Drives
- Network Systems
- Computer Peripheral Equipment

### ELECTRICAL CHARACTERISTICS:

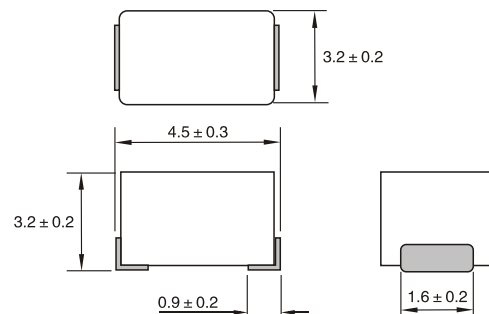
Part Number	L $\mu$ H	Tol %	Q Min	SRF MHz Min	DCR $\Omega$ Max	IDC Max mA	Test Freq MHz	Part Number	L $\mu$ H	Tol %	Q Min	SRF MHz Min	DCR $\Omega$ Max	IDC Max mA	Test Freq MHz
AIMS-1812-R10M	.10	$\pm 20$	35	300	0.18	800	25.2	AIMS-1812-150K	15	$\pm 10$	50	17	2.50	200	2.52
AIMS-1812-R12M	.12	$\pm 20$	35	280	0.20	770	25.2	AIMS-1812-180K	18	$\pm 10$	50	15	2.80	190	2.52
AIMS-1812-R15M	.15	$\pm 20$	35	250	0.22	730	25.2	AIMS-1812-220K	22	$\pm 10$	50	13	3.20	180	2.52
AIMS-1812-R18M	.18	$\pm 20$	35	220	0.24	700	25.2	AIMS-1812-270K	27	$\pm 10$	50	12	3.60	170	2.52
AIMS-1812-R22M	.22	$\pm 20$	40	200	0.25	665	25.2	AIMS-1812-330K	33	$\pm 10$	50	11	4.00	160	2.52
AIMS-1812-R27M	.27	$\pm 20$	40	180	0.26	635	25.2	AIMS-1812-390K	39	$\pm 10$	50	10	4.50	150	2.52
AIMS-1812-R33M	.33	$\pm 20$	40	165	0.28	605	25.2	AIMS-1812-470K	47	$\pm 10$	50	10	5.00	140	2.52
AIMS-1812-R39M	.39	$\pm 20$	40	150	2.30	575	25.2	AIMS-1812-560K	56	$\pm 10$	50	9.0	5.50	135	2.52
AIMS-1812-R47M	.47	$\pm 20$	40	145	0.32	545	25.2	AIMS-1812-680K	68	$\pm 10$	50	9.0	6.00	130	2.52
AIMS-1812-R56M	.56	$\pm 20$	40	140	0.36	520	25.2	AIMS-1812-820K	82	$\pm 10$	50	8.0	7.00	120	2.52
AIMS-1812-R68M	.68	$\pm 20$	40	135	0.40	500	25.2	AIMS-1812-101K	100	$\pm 10$	40	8.0	8.00	110	.796
AIMS-1812-R82M	.82	$\pm 20$	40	130	0.45	475	25.2	AIMS-1812-121K	120	$\pm 10$	40	6.0	8.00	110	.796
AIMS-1812-1R0K	1.0	$\pm 10$	50	100	0.50	450	7.96	AIMS-1812-151K	150	$\pm 10$	40	5.0	9.00	105	.796
AIMS-1812-1R2K	1.2	$\pm 10$	50	80	0.55	430	7.96	AIMS-1812-181K	180	$\pm 10$	40	5.0	9.50	102	.796
AIMS-1812-1R8K	1.8	$\pm 10$	50	60	0.65	390	7.96	AIMS-1812-221K	220	$\pm 10$	40	4.0	10.0	100	.796
AIMS-1812-2R2K	2.2	$\pm 10$	50	55	0.70	380	7.96	AIMS-1812-271K	270	$\pm 10$	40	4.0	12.0	92	.796
AIMS-1812-3R3K	3.3	$\pm 10$	50	45	0.80	355	7.96	AIMS-1812-331K	330	$\pm 10$	40	3.5	14.0	85	.796
AIMS-1812-3R9K	3.9	$\pm 10$	50	40	0.90	330	7.96	AIMS-1812-391K	390	$\pm 10$	40	3.0	18.0	80	.796
AIMS-1812-4R7K	4.7	$\pm 10$	50	35	1.00	315	7.96	AIMS-1812-471K	470	$\pm 10$	40	3.0	26.0	62	.796
AIMS-1812-5R6K	5.6	$\pm 10$	50	33	1.10	300	7.96	AIMS-1812-561K	560	$\pm 10$	30	3.0	30.0	50	.796
AIMS-1812-6R8K	6.8	$\pm 10$	50	27	1.20	285	7.96	AIMS-1812-681K	680	$\pm 10$	30	3.0	30.0	50	.796
AIMS-1812-8R2K	8.2	$\pm 10$	50	25	1.40	270	7.96	AIMS-1812-821K	820	$\pm 10$	30	2.5	35.0	30	.796
AIMS-1812-100K	10	$\pm 10$	50	20	1.60	250	2.52	AIMS-1812-102K	1000	$\pm 10$	20	2.5	40.0	30	.252
AIMS-1812-120K	12	$\pm 10$	50	18	2.00	225	2.52								

### TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)  
Inductance: HP4285A  
RDC: QuadTech 1880 Milliohmmer -Q- HP4342A - SRF-HP4191A
- IDC Max: Determined when superimposed  
DC current is decreased 10% against its initial value
- Operating temperature:  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$
- Storage Temperature:  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat:  $260^{\circ}\text{C}$  for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note: All specifications subject to change without notice.

### PHYSICAL CHARACTERISTICS:



Dimensions: (mm)