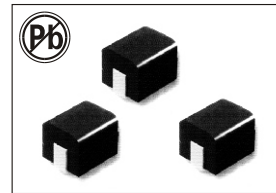


# SURFACE-MOUNT WOUND MOLDED CHIP INDUCTORS

## 1812



### 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:

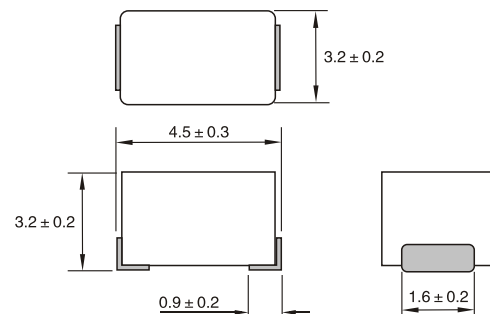
Part Number	L $\mu$ H	Tol %	Q Min	SRF MHz Min	DCR $\Omega$ Max	IDC Max mA	Test Freq MHz	Part Number	L $\mu$ H	Tol %	Q Min	SRF MHz Min	DCR $\Omega$ Max	IDC Max mA	Test Freq MHz
D DL0000.10m1812	.10	$\pm 20$	35	300	0.18	800	25.2	D DL0015.00k1812	15	$\pm 10$	50	17	2.50	200	2.52
D DL0000.12m1812	.12	$\pm 20$	35	280	0.20	770	25.2	D DL0018.00k1812	18	$\pm 10$	50	15	2.80	190	2.52
D DL0000.015m1812	.15	$\pm 20$	35	250	0.22	730	25.2	D DL0022.00k1812	22	$\pm 10$	50	13	3.20	180	2.52
D DL0000.18m1812	.18	$\pm 20$	35	220	0.24	700	25.2	D DL0027.00k1812	27	$\pm 10$	50	12	3.60	170	2.52
D DL0000.22m1812	.22	$\pm 20$	40	200	0.25	665	25.2	D DL0033.00k1812	33	$\pm 10$	50	11	4.00	160	2.52
D DL0000.27m1812	.27	$\pm 20$	40	180	0.26	635	25.2	D DL0039.00k1812	39	$\pm 10$	50	10	4.50	150	2.52
D DL0000.33m1812	.33	$\pm 20$	40	165	0.28	605	25.2	D DL0047.00k1812	47	$\pm 10$	50	10	5.00	140	2.52
D DL0000.39m1812	.39	$\pm 20$	40	150	2.30	575	25.2	D DL0056.00k1812	56	$\pm 10$	50	9.0	5.50	135	2.52
D DL0000.47m1812	.47	$\pm 20$	40	145	0.32	545	25.2	D DL0068.00k1812	68	$\pm 10$	50	9.0	6.00	130	2.52
D DL0000.56m1812	.56	$\pm 20$	40	140	0.36	520	25.2	D DL0082.00k1812	82	$\pm 10$	50	8.0	7.00	120	2.52
D DL0000.68m1812	.68	$\pm 20$	40	135	0.40	500	25.2	D DL0100.00k1812	100	$\pm 10$	40	8.0	8.00	110	.796
D DL0000.82m1812	.82	$\pm 20$	40	130	0.45	475	25.2	D DL0120.00k1812	120	$\pm 10$	40	6.0	8.00	110	.796
D DL0001.00k1812	1.0	$\pm 10$	50	100	0.50	450	7.96	D DL0150.00k1812	150	$\pm 10$	40	5.0	9.00	105	.796
D DL0001.20k1812	1.2	$\pm 10$	50	80	0.55	430	7.96	D DL0180.00k1812	180	$\pm 10$	40	5.0	9.50	102	.796
D DL0001.80k1812	1.8	$\pm 10$	50	60	0.65	390	7.96	D DL0220.00k1812	220	$\pm 10$	40	4.0	10.0	100	.796
D DL0002.20k1812	2.2	$\pm 10$	50	55	0.70	380	7.96	D DL0270.00k1812	270	$\pm 10$	40	4.0	12.0	92	.796
D DL0003.30k1812	3.3	$\pm 10$	50	45	0.80	355	7.96	D DL0330.00k1812	330	$\pm 10$	40	3.5	14.0	85	.796
D DL0003.90k1812	3.9	$\pm 10$	50	40	0.90	330	7.96	D DL0390.00k1812	390	$\pm 10$	40	3.0	18.0	80	.796
D DL0004.70k1812	4.7	$\pm 10$	50	35	1.00	315	7.96	D DL0470.00k1812	470	$\pm 10$	40	3.0	26.0	62	.796
D DL0005.60k1812	5.6	$\pm 10$	50	33	1.10	300	7.96	D DL0560.00k1812	560	$\pm 10$	30	3.0	30.0	50	.796
D DL0006.80k1812	6.8	$\pm 10$	50	27	1.20	285	7.96	D DL0680.00k1812	680	$\pm 10$	30	3.0	30.0	50	.796
D DL0008.20k1812	8.2	$\pm 10$	50	25	1.40	270	7.96	D DL0820.00k1812	820	$\pm 10$	30	2.5	35.0	30	.796
D DL0010.00k1812	10	$\pm 10$	50	20	1.60	250	2.52	D DL1000.00k1812	1000	$\pm 10$	20	2.5	40.0	30	2.52
D DL0012.00k1812	12	$\pm 10$	50	18	2.00	225	2.52								

### TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)  
Inductance: HP4285A  
RDC: QuadTech 1880 Milliohmeter -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)