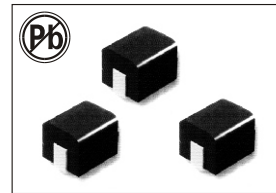


SURFACE-MOUNT WOUND MOLDED CHIP INDUCTORS

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:

| L μ H | Tol % | Q Min | SRF MHz Min | DCR Ω Max | IDC Max mA | Test Freq MHz |
|----------|----------|----------|-------------------|-----------------|------------------|---------------------|
| .10 | ± 20 | 35 | 300 | 0.18 | 800 | 25.2 |
| .12 | ± 20 | 35 | 280 | 0.20 | 770 | 25.2 |
| .15 | ± 20 | 35 | 250 | 0.22 | 730 | 25.2 |
| .18 | ± 20 | 35 | 220 | 0.24 | 700 | 25.2 |
| .22 | ± 20 | 40 | 200 | 0.25 | 665 | 25.2 |
| .27 | ± 20 | 40 | 180 | 0.26 | 635 | 25.2 |
| .33 | ± 20 | 40 | 165 | 0.28 | 605 | 25.2 |
| .39 | ± 20 | 40 | 150 | 0.30 | 575 | 25.2 |
| .47 | ± 20 | 40 | 145 | 0.32 | 545 | 25.2 |
| .56 | ± 20 | 40 | 140 | 0.36 | 520 | 25.2 |
| .68 | ± 20 | 40 | 135 | 0.40 | 500 | 25.2 |
| .82 | ± 20 | 40 | 130 | 0.45 | 475 | 25.2 |
| 1.0 | ± 10 | 50 | 100 | 0.50 | 450 | 7.96 |
| 1.2 | ± 10 | 50 | 80 | 0.55 | 430 | 7.96 |
| 1.8 | ± 10 | 50 | 60 | 0.65 | 390 | 7.96 |
| 2.2 | ± 10 | 50 | 55 | 0.70 | 380 | 7.96 |
| 3.3 | ± 10 | 50 | 45 | 0.80 | 355 | 7.96 |
| 3.9 | ± 10 | 50 | 40 | 0.90 | 330 | 7.96 |
| 4.7 | ± 10 | 50 | 35 | 1.00 | 315 | 7.96 |
| 5.6 | ± 10 | 50 | 33 | 1.10 | 300 | 7.96 |
| 6.8 | ± 10 | 50 | 27 | 1.20 | 285 | 7.96 |
| 8.2 | ± 10 | 50 | 25 | 1.40 | 270 | 7.96 |
| 10 | ± 10 | 50 | 20 | 1.60 | 250 | 2.52 |
| 12 | ± 10 | 50 | 18 | 2.00 | 225 | 2.52 |

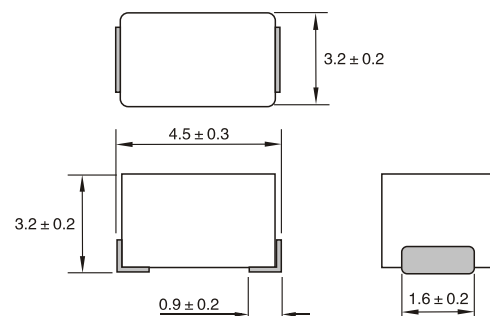
| L μ H | Tol % | Q Min | SRF MHz Min | DCR Ω Max | IDC Max mA | Test Freq MHz |
|----------|----------|----------|-------------------|-----------------|------------------|---------------------|
| 15 | ± 10 | 50 | 17 | 2.50 | 200 | 2.52 |
| 18 | ± 10 | 50 | 15 | 2.80 | 190 | 2.52 |
| 22 | ± 10 | 50 | 13 | 3.20 | 180 | 2.52 |
| 27 | ± 10 | 50 | 12 | 3.60 | 170 | 2.52 |
| 33 | ± 10 | 50 | 11 | 4.00 | 160 | 2.52 |
| 39 | ± 10 | 50 | 10 | 4.50 | 150 | 2.52 |
| 47 | ± 10 | 50 | 10 | 5.00 | 140 | 2.52 |
| 56 | ± 10 | 50 | 9.0 | 5.50 | 135 | 2.52 |
| 68 | ± 10 | 50 | 9.0 | 6.00 | 130 | 2.52 |
| 82 | ± 10 | 50 | 8.0 | 7.00 | 120 | 2.52 |
| 100 | ± 10 | 40 | 8.0 | 8.00 | 110 | .796 |
| 120 | ± 10 | 40 | 6.0 | 8.00 | 110 | .796 |
| 150 | ± 10 | 40 | 5.0 | 9.00 | 105 | .796 |
| 180 | ± 10 | 40 | 5.0 | 9.50 | 102 | .796 |
| 220 | ± 10 | 40 | 4.0 | 10.0 | 100 | .796 |
| 270 | ± 10 | 40 | 4.0 | 12.0 | 92 | .796 |
| 330 | ± 10 | 40 | 3.5 | 14.0 | 85 | .796 |
| 390 | ± 10 | 40 | 3.0 | 18.0 | 80 | .796 |
| 470 | ± 10 | 40 | 3.0 | 26.0 | 62 | .796 |
| 560 | ± 10 | 30 | 3.0 | 30.0 | 50 | .796 |
| 680 | ± 10 | 30 | 3.0 | 30.0 | 50 | .796 |
| 820 | ± 10 | 30 | 2.5 | 35.0 | 30 | .796 |
| 1000 | ± 10 | 20 | 2.5 | 40.0 | 30 | .252 |

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°C to +105°C
- Storage Temperature: -40°C to +105°C
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat: 260°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)