



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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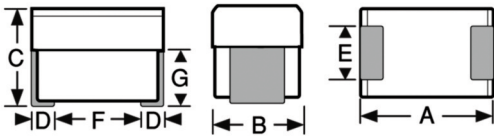
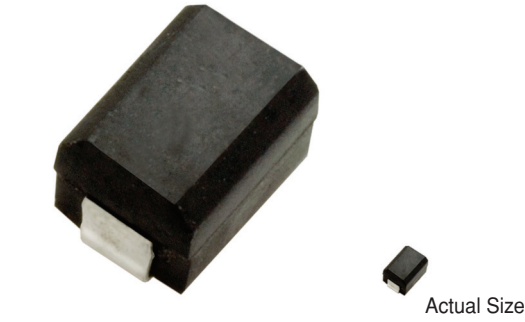
SERIES

**MIL1812R
MIL1812**



Unshielded Surface Mount Inductors

DASH NUMBER*
MIL DASH #
INDUCTANCE (µH)
TOLERANCE
Q MINIMUM
TEST FREQUENCY (MHz)
SRF MINIMUM (MHz)
DC RESISTANCE MAXIMUM (OHMS)
CURRENT RATING MAXIMUM (mA)



Military QPL Approvals

M83446/39

* Suffix F: Tin/Lead Termination

* Suffix P: Tin Termination

Physical Parameters

| | Inches | Millimeters |
|---|-------------------|------------------|
| A | 0.166 to 0.190 | 4.22 to 4.83 |
| B | 0.118 to 0.134 | 3.00 to 3.40 |
| C | 0.118 to 0.134 | 3.00 to 3.40 |
| D | 0.015 Min. | 0.38 Min. |
| E | 0.054 to 0.078 | 1.37 to 1.98 |
| F | 0.118 (Ref. only) | 3.00 (Ref. only) |
| G | 0.066 (Ref. only) | 1.68 (Ref. only) |

Dimensions "A" and "C" are over terminals

Operating Temperature Range -55°C to +125°C

Current Rating at 90°C Ambient 35°C Rise

Maximum Power Dissipation at 90°C

Iron and Ferrite: 0.278 W

Phenolic: 0.210 W

****†Note** Self Resonant Frequency (SRF) values are calculated and for reference only.

Packaging Tape & reel (12mm): 7" reel, 650 pieces max.; 13" reel, 2500 pieces max.

*** Termination Finish Options** (Part & Callout)

MIL1812-101K = M83446/30F (Tin/Lead)

MIL1812R-101K = M83446/13P (Lead free)

Marking API/SMD; inductance with units and tolerance; date code (YYWWL) followed by an M. Note: An R before the date code indicates a RoHS component.

Example: MIL1812-101K

API/SMD
0.10µH±10%
0808A M

Parts listed above are QPL/MIL qualified

*Complete part # must include series # PLUS the dash #

For surface finish information,
refer to www.delevanfinishes.com

| M83446/39 PHENOLIC CORE | | | | | | | | |
|-------------------------|------|-------|------|----|------|---------|------|------|
| -100M | -01* | 0.010 | ±20% | 40 | 50 | 1000**† | 0.10 | 1230 |
| -120M | -02* | 0.012 | ±20% | 40 | 50 | 1000**† | 0.10 | 1230 |
| -150M | -03* | 0.015 | ±20% | 40 | 50 | 1000**† | 0.10 | 1230 |
| -180M | -04* | 0.018 | ±20% | 40 | 50 | 1000**† | 0.10 | 1230 |
| -220M | -05* | 0.022 | ±20% | 40 | 50 | 1000**† | 0.10 | 1230 |
| -270M | -06* | 0.027 | ±20% | 40 | 50 | 1000**† | 0.15 | 1000 |
| -330M | -07* | 0.033 | ±20% | 40 | 50 | 1000**† | 0.15 | 1000 |
| -390M | -08* | 0.039 | ±20% | 30 | 50 | 1000**† | 0.20 | 870 |
| -470M | -09* | 0.047 | ±20% | 30 | 50 | 1000**† | 0.20 | 870 |
| -560M | -10* | 0.056 | ±20% | 30 | 50 | 850**† | 0.25 | 770 |
| -680M | -11* | 0.068 | ±20% | 25 | 50 | 750**† | 0.25 | 770 |
| -820M | -12* | 0.082 | ±20% | 25 | 50 | 750**† | 0.25 | 700 |
| M83446/39 IRON CORE | | | | | | | | |
| -101K | -13* | 0.10 | ±10% | 30 | 25 | 650**† | 0.30 | 818 |
| -121K | -14* | 0.12 | ±10% | 30 | 25 | 600**† | 0.30 | 818 |
| -151K | -15* | 0.15 | ±10% | 30 | 25 | 500**† | 0.30 | 818 |
| -181K | -16* | 0.18 | ±10% | 30 | 25 | 400**† | 0.35 | 757 |
| -221K | -17* | 0.22 | ±10% | 30 | 25 | 350**† | 0.40 | 708 |
| -271K | -18* | 0.27 | ±10% | 30 | 25 | 300**† | 0.45 | 668 |
| -331K | -19* | 0.33 | ±10% | 30 | 25 | 250 | 0.55 | 604 |
| -391K | -20* | 0.39 | ±10% | 30 | 25 | 220 | 0.70 | 535 |
| -471K | -21* | 0.47 | ±10% | 30 | 25 | 190 | 0.80 | 501 |
| -561K | -22* | 0.56 | ±10% | 30 | 25 | 170 | 1.20 | 409 |
| -681K | -23* | 0.68 | ±10% | 30 | 25 | 150 | 1.40 | 379 |
| -821K | -24* | 0.82 | ±10% | 30 | 25 | 140 | 1.60 | 354 |
| M83446/39 FERRITE CORE | | | | | | | | |
| -102J | -25* | 1.0 | ±5% | 50 | 7.9 | 100 | 0.50 | 634 |
| -122J | -26* | 1.2 | ±5% | 50 | 7.9 | 80 | 0.55 | 604 |
| -152J | -27* | 1.5 | ±5% | 50 | 7.9 | 70 | 0.60 | 578 |
| -182J | -28* | 1.8 | ±5% | 50 | 7.9 | 60 | 0.65 | 556 |
| -222J | -29* | 2.2 | ±5% | 50 | 7.9 | 55 | 0.70 | 535 |
| -272J | -30* | 2.7 | ±5% | 50 | 7.9 | 50 | 0.75 | 517 |
| -332J | -31* | 3.3 | ±5% | 50 | 7.9 | 45 | 0.80 | 501 |
| -392J | -32* | 3.9 | ±5% | 50 | 7.9 | 40 | 0.90 | 472 |
| -472J | -33* | 4.7 | ±5% | 50 | 7.9 | 35 | 1.00 | 448 |
| -562J | -34* | 5.6 | ±5% | 50 | 7.9 | 33 | 1.10 | 427 |
| -682J | -35* | 6.8 | ±5% | 50 | 7.9 | 27 | 1.20 | 409 |
| -822J | -36* | 8.2 | ±5% | 50 | 7.9 | 25 | 1.40 | 375 |
| -103J | -37* | 10 | ±5% | 50 | 7.9 | 20 | 1.60 | 354 |
| -123J | -38* | 12 | ±5% | 50 | 2.5 | 18 | 2.00 | 317 |
| -153J | -39* | 15 | ±5% | 50 | 2.5 | 17 | 2.50 | 283 |
| -183J | -40* | 18 | ±5% | 50 | 2.5 | 15 | 2.80 | 268 |
| -223J | -41* | 22 | ±5% | 50 | 2.5 | 13 | 3.20 | 250 |
| -273J | -42* | 27 | ±5% | 50 | 2.5 | 12 | 3.60 | 236 |
| -333J | -43* | 33 | ±5% | 50 | 2.5 | 11 | 4.00 | 224 |
| -393J | -44* | 39 | ±5% | 50 | 2.5 | 10 | 4.50 | 211 |
| -473J | -45* | 47 | ±5% | 50 | 2.5 | 10 | 5.00 | 200 |
| -563J | -46* | 56 | ±5% | 50 | 2.5 | 9 | 5.50 | 191 |
| -683J | -47* | 68 | ±5% | 50 | 2.5 | 9 | 6.00 | 183 |
| -823J | -48* | 82 | ±5% | 50 | 2.5 | 8 | 7.00 | 169 |
| -104J | -49* | 100 | ±5% | 50 | 2.5 | 8 | 8.00 | 158 |
| -124J | -50* | 120 | ±5% | 40 | 0.79 | 6 | 8.0 | 158 |
| -154J | -51* | 150 | ±5% | 40 | 0.79 | 6 | 9.0 | 149 |
| -184J | -52* | 180 | ±5% | 40 | 0.79 | 5 | 9.5 | 145 |
| -224J | -53* | 220 | ±5% | 40 | 0.79 | 4 | 10.0 | 142 |
| -274J | -54* | 270 | ±5% | 40 | 0.79 | 4 | 12.0 | 129 |
| -334J | -55* | 330 | ±5% | 40 | 0.79 | 3.5 | 14.0 | 120 |
| -394J | -56* | 390 | ±5% | 40 | 0.79 | 3.0 | 20.0 | 100 |
| -474J | -57* | 470 | ±5% | 40 | 0.79 | 3.0 | 26.0 | 88 |
| -564J | -58* | 560 | ±5% | 30 | 0.79 | 3.0 | 30.0 | 82 |
| -684J | -59* | 680 | ±5% | 30 | 0.79 | 3.0 | 30.0 | 82 |
| -824J | -60* | 820 | ±5% | 30 | 0.79 | 2.5 | 45.0 | 67 |
| -105J | -61* | 1000 | ±5% | 30 | 0.79 | 2.5 | 60.0 | 55 |