

SERIES

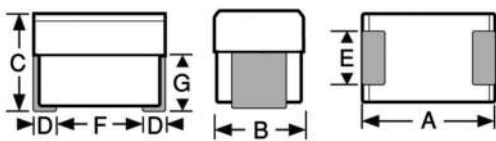
**1812R
1812**



Unshielded Surface Mount Inductors



Actual Size



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.

Marking Delevan; Inductance; Date/Lot Code (YYWWL).

Note: An R before the date code indicates a RoHS component.

Example: 1812R-105J

DELEVAN
105
R 1828A

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

Made In the U.S.A.

Optional Tolerances: J = 5% H = 3% G = 2% F = 1%

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

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

| SERIES 1812 PHENOLIC CORE | | | | | | | |
|---------------------------|-------|------|----|------|-------|------|------|
| -100M | 0.010 | ±20% | 40 | 50 | 1000* | 0.10 | 1230 |
| -120M | 0.012 | ±20% | 40 | 50 | 1000* | 0.10 | 1230 |
| -150M | 0.015 | ±20% | 40 | 50 | 1000* | 0.10 | 1230 |
| -180M | 0.018 | ±20% | 40 | 50 | 1000* | 0.10 | 1230 |
| -220M | 0.022 | ±20% | 40 | 50 | 1000* | 0.10 | 1230 |
| -270M | 0.027 | ±20% | 40 | 50 | 1000* | 0.15 | 1000 |
| -330M | 0.033 | ±20% | 40 | 50 | 1000* | 0.15 | 1000 |
| -390M | 0.039 | ±20% | 30 | 50 | 1000* | 0.20 | 870 |
| -470M | 0.047 | ±20% | 30 | 50 | 1000* | 0.20 | 870 |
| -560M | 0.056 | ±20% | 30 | 50 | 850* | 0.25 | 770 |
| -680M | 0.068 | ±20% | 25 | 50 | 750* | 0.25 | 770 |
| -820M | 0.082 | ±20% | 25 | 50 | 750* | 0.25 | 700 |
| SERIES 1812 IRON CORE | | | | | | | |
| -101K | 0.10 | ±10% | 30 | 25 | 650 | 0.30 | 818 |
| -121K | 0.12 | ±10% | 30 | 25 | 600 | 0.30 | 818 |
| -151K | 0.15 | ±10% | 30 | 25 | 500 | 0.30 | 818 |
| -181K | 0.18 | ±10% | 30 | 25 | 400 | 0.35 | 757 |
| -221K | 0.22 | ±10% | 30 | 25 | 350 | 0.40 | 708 |
| -271K | 0.27 | ±10% | 30 | 25 | 300 | 0.45 | 668 |
| -331K | 0.33 | ±10% | 30 | 25 | 250 | 0.55 | 604 |
| -391K | 0.39 | ±10% | 30 | 25 | 220 | 0.70 | 535 |
| -471K | 0.47 | ±10% | 30 | 25 | 190 | 0.80 | 501 |
| -561K | 0.56 | ±10% | 30 | 25 | 170 | 1.20 | 409 |
| -681K | 0.68 | ±10% | 30 | 25 | 150 | 1.40 | 379 |
| -821K | 0.82 | ±10% | 30 | 25 | 140 | 1.60 | 354 |
| SERIES 1812 FERRITE CORE | | | | | | | |
| -102J | 1.0 | ±5% | 50 | 7.9 | 100 | 0.50 | 634 |
| -122J | 1.2 | ±5% | 50 | 7.9 | 80 | 0.55 | 604 |
| -152J | 1.5 | ±5% | 50 | 7.9 | 70 | 0.60 | 578 |
| -182J | 1.8 | ±5% | 50 | 7.9 | 60 | 0.65 | 556 |
| -222J | 2.2 | ±5% | 50 | 7.9 | 55 | 0.70 | 535 |
| -272J | 2.7 | ±5% | 50 | 7.9 | 50 | 0.75 | 517 |
| -332J | 3.3 | ±5% | 50 | 7.9 | 45 | 0.80 | 501 |
| -392J | 3.9 | ±5% | 50 | 7.9 | 40 | 0.90 | 472 |
| -472J | 4.7 | ±5% | 50 | 7.9 | 35 | 1.00 | 448 |
| -562J | 5.6 | ±5% | 50 | 7.9 | 33 | 1.10 | 427 |
| -682J | 6.8 | ±5% | 50 | 7.9 | 27 | 1.20 | 409 |
| -822J | 8.2 | ±5% | 50 | 7.9 | 25 | 1.40 | 375 |
| -103J | 10 | ±5% | 50 | 7.9 | 20 | 1.60 | 354 |
| -123J | 12 | ±5% | 50 | 2.5 | 18 | 2.00 | 317 |
| -153J | 15 | ±5% | 50 | 2.5 | 17 | 2.50 | 283 |
| -183J | 18 | ±5% | 50 | 2.5 | 15 | 2.80 | 268 |
| -223J | 22 | ±5% | 50 | 2.5 | 13 | 3.20 | 250 |
| -273J | 27 | ±5% | 50 | 2.5 | 12 | 3.60 | 236 |
| -333J | 33 | ±5% | 50 | 2.5 | 11 | 4.00 | 224 |
| -393J | 39 | ±5% | 50 | 2.5 | 10 | 4.50 | 211 |
| -473J | 47 | ±5% | 50 | 2.5 | 10 | 5.00 | 200 |
| -563J | 56 | ±5% | 50 | 2.5 | 9 | 5.50 | 191 |
| -683J | 68 | ±5% | 50 | 2.5 | 9 | 6.00 | 183 |
| -823J | 82 | ±5% | 50 | 2.5 | 8 | 7.00 | 169 |
| -104J | 100 | ±5% | 50 | 2.5 | 8 | 8.00 | 158 |
| -124J | 120 | ±5% | 40 | 0.79 | 6 | 8.0 | 158 |
| -154J | 150 | ±5% | 40 | 0.79 | 6 | 9.0 | 149 |
| -184J | 180 | ±5% | 40 | 0.79 | 5 | 9.5 | 145 |
| -224J | 220 | ±5% | 40 | 0.79 | 4 | 10.0 | 142 |
| -274J | 270 | ±5% | 40 | 0.79 | 4 | 12.0 | 129 |
| -334J | 330 | ±5% | 40 | 0.79 | 3.5 | 14.0 | 120 |
| -394J | 390 | ±5% | 40 | 0.79 | 3.0 | 20.0 | 100 |
| -474J | 470 | ±5% | 40 | 0.79 | 3.0 | 26.0 | 88 |
| -564J | 560 | ±5% | 30 | 0.79 | 3.0 | 30.0 | 82 |
| -684J | 680 | ±5% | 30 | 0.79 | 3.0 | 30.0 | 82 |
| -824J | 820 | ±5% | 30 | 0.79 | 2.5 | 45.0 | 67 |
| -105J | 1000 | ±5% | 30 | 0.79 | 2.5 | 60.0 | 55 |