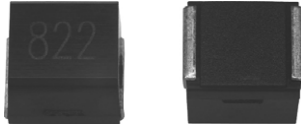


High Frequency, Surface-Mount Molded Inductors



| STANDARD ELECTRICAL SPECIFICATIONS | | | | | | |
|------------------------------------|------|------------------|--------|----------------|--------------|--------------------------------------|
| IND. (nH) | TOL. | TEST FREQ. (MHz) | Q MIN. | SRF MIN. (MHz) | DCR MAX. (Ω) | RATED DC CURRENT (mA) ⁽¹⁾ |
| | | L & Q | | | | |
| 1.0 | 10 % | 7.96 | 10 | 95 | 0.030 | 1800 |
| 1.2 | 10 % | 7.96 | 10 | 70 | 0.035 | 1700 |
| 1.5 | 10 % | 7.96 | 10 | 55 | 0.040 | 1600 |
| 1.8 | 10 % | 7.96 | 10 | 47 | 0.050 | 1400 |
| 2.2 | 10 % | 7.96 | 10 | 42 | 0.060 | 1300 |
| 2.7 | 10 % | 7.96 | 10 | 37 | 0.070 | 1200 |
| 3.3 | 10 % | 7.96 | 10 | 34 | 0.080 | 1120 |
| 3.9 | 10 % | 7.96 | 10 | 32 | 0.090 | 1050 |
| 4.7 | 10 % | 7.96 | 10 | 29 | 0.110 | 950 |
| 5.6 | 10 % | 7.96 | 10 | 26 | 0.130 | 880 |
| 6.8 | 10 % | 7.96 | 10 | 24 | 0.150 | 810 |
| 8.2 | 10 % | 7.96 | 10 | 22 | 0.180 | 750 |
| 10 | 10 % | 2.52 | 10 | 19 | 0.210 | 690 |
| 12 | 10 % | 2.52 | 10 | 17 | 0.250 | 630 |
| 15 | 10 % | 2.52 | 10 | 16 | 0.300 | 580 |
| 18 | 10 % | 2.52 | 10 | 14 | 0.360 | 530 |
| 22 | 10 % | 2.52 | 10 | 13 | 0.430 | 480 |
| 27 | 10 % | 2.52 | 10 | 11.5 | 0.520 | 440 |
| 33 | 10 % | 2.52 | 10 | 10.5 | 0.620 | 400 |
| 39 | 10 % | 2.52 | 10 | 9.5 | 0.720 | 370 |
| 47 | 10 % | 2.52 | 10 | 8.5 | 0.850 | 340 |
| 56 | 10 % | 2.52 | 10 | 7.8 | 1.00 | 310 |
| 68 | 10 % | 2.52 | 10 | 7 | 1.20 | 290 |
| 82 | 10 % | 2.52 | 10 | 6.4 | 1.40 | 270 |
| 100 | 10 % | 0.796 | 20 | 6 | 1.60 | 250 |
| 120 | 10 % | 0.796 | 20 | 5.4 | 1.90 | 230 |
| 150 | 10 % | 0.796 | 20 | 4.8 | 2.20 | 210 |
| 180 | 10 % | 0.796 | 20 | 4.4 | 2.80 | 190 |
| 220 | 10 % | 0.796 | 20 | 3.9 | 3.40 | 170 |
| 270 | 10 % | 0.796 | 20 | 3.6 | 4.20 | 155 |
| 330 | 10 % | 0.796 | 20 | 3.2 | 4.90 | 140 |
| 390 | 10 % | 0.796 | 20 | 2.9 | 5.80 | 130 |
| 470 | 10 % | 0.796 | 20 | 2.6 | 7.00 | 120 |
| 560 | 10 % | 0.796 | 20 | 2.4 | 8.50 | 110 |
| 680 | 10 % | 0.796 | 20 | 2.2 | 10.0 | 100 |
| 820 | 10 % | 0.796 | 20 | 2 | 13.0 | 90 |
| 1000 | 10 % | 0.252 | 20 | 1.8 | 15.0 | 85 |
| 1200 | 5 % | 0.252 | 20 | 1.5 | 17.0 | 75 |
| 1500 | 5 % | 0.252 | 20 | 1.4 | 20.0 | 70 |
| 1800 | 5 % | 0.252 | 20 | 1.3 | 30.0 | 60 |
| 2200 | 5 % | 0.252 | 20 | 1.2 | 35.0 | 55 |
| 2700 | 5 % | 0.252 | 20 | 1.1 | 55.0 | 45 |
| 3300 | 5 % | 0.252 | 20 | 1 | 60.0 | 40 |
| 3900 | 5 % | 0.252 | 20 | 1 | 70.0 | 38 |
| 4700 | 5 % | 0.252 | 20 | 0.9 | 78.0 | 36 |
| 5600 | 5 % | 0.252 | 20 | 0.8 | 85.0 | 33 |
| 6800 | 5 % | 0.252 | 20 | 0.7 | 110.0 | 30 |
| 8200 | 5 % | 0.252 | 20 | 0.6 | 125.0 | 28 |
| 10 000 | 5 % | 0.0796 | 15 | 0.5 | 150.0 | 25 |

Note

(1) Rated DC current based on the maximum temperature rise, not to exceed 40 °C at +85 °C ambient

FEATURES

- Molded construction provides superior strength and moisture resistance
- Compatible with vapor phase infrared and wave soldering methods (100 % tin plating)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE

ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 μH to 10 000 μH

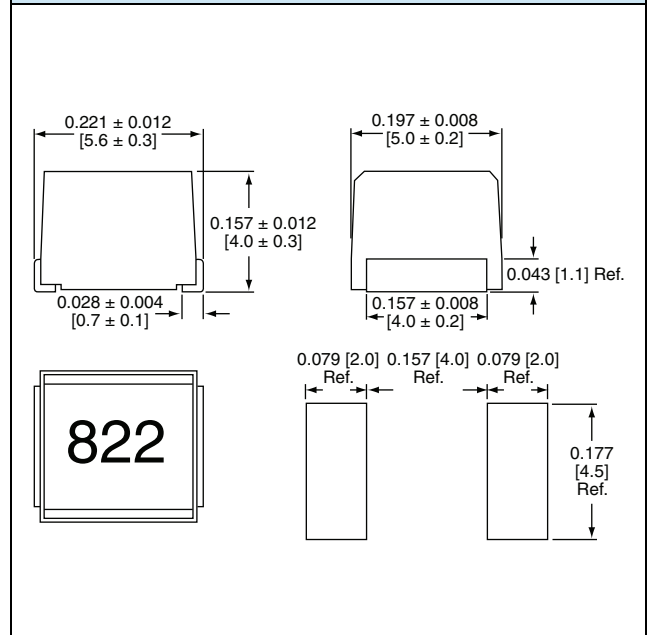
Inductance and Tolerance: ± 10 %, ± 5 %

Operating Temperature: -40 °C to +125 °C

Storage Temperature: -40 °C to +125 °C

TEST EQUIPMENT

- Inductance and Q measured on HP4191
- SRF measured on HP3755
- DCR measured on HP34401

DIMENSIONS in inches [millimeters]

DESCRIPTION

| | | | | |
|----------|------------------|----------------------|--------------|--------------------------------|
| IMC-2220 | 22 μH | ± 10 % | ER | E3 |
| MODEL | INDUCTANCE VALUE | INDUCTANCE TOLERANCE | PACKAGE CODE | JEDEC® LEAD (Pb)-FREE STANDARD |

GLOBAL PART NUMBER

| | | | | | | | | | | | | |
|----------------|---|---|------|---|---|---|--------------|---|------------------|---|---|------|
| I | M | C | 2 | 2 | 2 | 0 | E | R | 2 | 2 | 0 | K |
| PRODUCT FAMILY | | | SIZE | | | | PACKAGE CODE | | INDUCTANCE VALUE | | | TOL. |



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