

VISHAY / DALE Surface Mount Inductors

This product is RoHS compliant.

IMC-0603 SURFACE MOUNT INDUCTORS HIGH FREQUENCY, LASER SPIRAL, COATED

Features:

- High self-resonant frequency values
- High Q values relative to size at higher frequencies
- Coated coil provides protection and moisture resistance
- Compatible with vapor phase and infrared reflow soldering
- L and Q value not affected by mounting orientation

DIMENSIONS: in.



For quantities of 6,000 and up, call for quote.

| MOUSER STOCK NO. | L (nH) | Tol. ± | Q Min | Test Freq MHz | SRF Min. MHz | DCR Max. (Ω) | Rated DC Curr. (mA) | Price Each | | | Reel Price Each |
|------------------|--------|--------|-------|---------------|--------------|--------------|---------------------|------------|----|-----|-----------------|
| | | | | | | | | 1 | 50 | 100 | 3000 |
| 70-IMC0603ER2N2S | 2.2 | .3nH | 8 | 100 | 6000 | 0.09 | 500 | | | | |
| 70-IMC0603ER3N3S | 3.3 | .3nH | 9 | 100 | 5500 | 0.12 | 500 | | | | |
| 70-IMC0603ER4N7J | 4.7 | 5% | 9 | 100 | 4800 | 0.17 | 450 | | | | |
| 70-IMC0603ER10NJ | 10 | 5% | 10 | 100 | 2800 | 0.32 | 400 | | | | |
| 70-IMC0603ER22NJ | 22 | 5% | 10 | 100 | 2000 | 0.5 | 300 | | | | |
| 70-IMC0603ER33NJ | 33 | 5% | 10 | 100 | 1800 | 0.6 | 300 | | | | |
| 70-IMC0603ER47NJ | 47 | 5% | 11 | 100 | 1800 | 0.95 | 250 | | | | |
| 70-IMC0603ER82NJ | 82 | 5% | 12 | 100 | 1500 | 1.5 | 250 | | | | |
| 70-IMC0603ERR10J | 100 | 5% | 12 | 100 | 1300 | 1.8 | 200 | | | | |

Specifications:

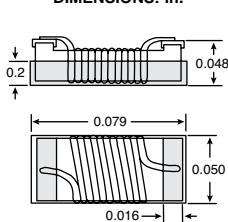
- Operating temperature: -40°C to +100°C
- Core Material: Ceramic

IMC-0805-01 SURFACE MOUNT INDUCTORS HIGH FREQUENCY

Features:

- High self-resonant frequency values
- High Q values relative to size at higher frequencies
- Wirewound construction
- Compatible with vapor phase and infrared reflow soldering

DIMENSIONS: in.



Specifications:

- Operating temperature: -40°C to +125°C
- Core Material: Ceramic for 2.2nH to 390nH
- Ferrite for 470nH to 10,000nH



For quantities of 4,000 and up, call for quote.

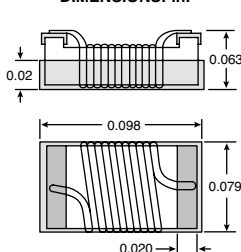
| MOUSER STOCK NO. | L (nH) | Tol. ± | Q Min | Test Freq MHz | SRF Min. MHz | DCR Max. (Ω) | Rated DC Curr. (mA) | Price Each | | | Reel Price Each |
|--------------------|--------|--------|-------|---------------|--------------|--------------|---------------------|------------|----|-----|-----------------|
| | | | | | | | | 1 | 50 | 100 | 2000 |
| 70-IMC0805ER2N2S01 | 2.2 | .3nH | 50 | 1000 | 6000 | 0.06 | 600 | | | | |
| 70-IMC0805ER2N7S01 | 2.7 | .3nH | 35 | 1000 | 6000 | 0.08 | 600 | | | | |
| 70-IMC0805ER5N6J01 | 5.6 | 5% | 60 | 1000 | 5800 | 0.08 | 600 | | | | |
| 70-IMC0805ER10NJ01 | 10 | 5% | 60 | 500 | 4800 | 0.08 | 600 | | | | |
| 70-IMC0805ER22NJ01 | 22 | 5% | 60 | 500 | 3300 | 0.10 | 600 | | | | |
| 70-IMC0805ER27NJ01 | 27 | 5% | 60 | 500 | 2600 | 0.12 | 600 | | | | |
| 70-IMC0805ER47NJ01 | 47 | 5% | 60 | 500 | 2100 | 0.15 | 500 | | | | |
| 70-IMC0805ERR10J01 | 100 | 5% | 60 | 500 | 1200 | 0.43 | 500 | | | | |
| 70-IMC0805ERR22J01 | 220 | 5% | 50 | 250 | 860 | 1.10 | 300 | | | | |
| 70-IMC0805ERR27J01 | 270 | 5% | 45 | 250 | 850 | 1.46 | 250 | | | | |
| 70-IMC0805ERR47J01 | 470 | 5% | 45 | 100 | 750 | 0.99 | 330 | | | | |
| 70-IMC0805ER1R0J01 | 1000 | 5% | 35 | 50 | 480 | 2.50 | 120 | | | | |
| 70-IMC0805ER2R2J01 | 2200 | 5% | 15 | 7.96 | 100 | 1.15 | 320 | | | | |
| 70-IMC0805ER2R7J01 | 2700 | 5% | 15 | 7.96 | 100 | 1.25 | 320 | | | | |
| 70-IMC0805RK3R3J01 | 3300 | 5% | 15 | 7.96 | 50 | 1.75 | 270 | | | | |

IMC-1008 SURFACE MOUNT INDUCTORS HIGH FREQUENCY

Features:

- High self-resonant frequency values
- High Q values at higher frequencies
- Wirewound construction
- Compatible with vapor phase and infrared reflow soldering

DIMENSIONS: in.



Specifications:

- Inductance and Q measured on HP4191A
- SRF measured on HP8753B
- Temperature range: -40°C to +85°C
- Core material: non-magnetic



For quantities of 4,000 and up, call for quote.

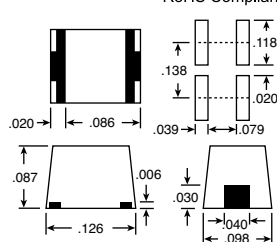
| MOUSER STOCK NO. | L (nH) | Tol. ± | Q Min | Test Freq MHz | SRF Min. MHz | DCR Max. (Ω) | Rated DC Curr. (mA) | Price Each | | | Reel Price Each |
|------------------|--------|--------|-------|---------------|--------------|--------------|---------------------|------------|----|-----|-----------------|
| | | | | | | | | 1 | 50 | 100 | 2000 |
| 70-IMC1008ER10NJ | 10 | 5% | 50 | 1000 | 4300 | 0.08 | 600 | | | | |
| 70-IMC1008ER22NJ | 22 | 5% | 60 | 350 | 2500 | 0.10 | 600 | | | | |
| 70-IMC1008ER27NJ | 27 | 5% | 60 | 350 | 1800 | 0.10 | 600 | | | | |
| 70-IMC1008ER47NJ | 47 | 5% | 60 | 350 | 1500 | 0.10 | 600 | | | | |
| 70-IMC1008ERR10J | 100 | 5% | 60 | 350 | 1100 | 0.18 | 500 | | | | |
| 70-IMC1008ERR22J | 220 | 5% | 45 | 100 | 730 | 0.45 | 500 | | | | |
| 70-IMC1008ERR27J | 270 | 5% | 45 | 100 | 650 | 0.75 | 500 | | | | |
| 70-IMC1008ERR47J | 470 | 5% | 45 | 100 | 480 | 1.30 | 400 | | | | |
| 70-IMC1008ER1R0J | 1000 | 5% | 35 | 50 | 310 | 3.60 | 90 | | | | |
| 70-IMC1008ER2R2J | 2200 | 5% | 30 | 7.96 | 105 | 1.55 | 200 | | | | |
| 70-IMC1008ER2R7J | 2700 | 5% | 30 | 7.96 | 70 | 1.70 | 195 | | | | |
| 70-IMC1008ER4R7J | 4700 | 5% | 30 | 7.96 | 43 | 2.30 | 175 | | | | |
| 70-IMC1008ER6R8J | 6800 | 5% | 25 | 7.96 | 39 | 2.80 | 165 | | | | |
| 70-IMC1008ER8R2J | 8200 | 5% | 25 | 7.96 | 36 | 3.05 | 160 | | | | |

IMC-1210 MOLDED SURFACE MOUNT INDUCTORS

Features:

- Printed marking
- Compatible with vapor phase and infrared reflow soldering
- Molded construction provides superior strength and moisture resistance

RoHS Compliant



Specifications:

- Operating temperature: -55°C to +125°C
- Core material: Ceramic for 3.3nH to 1000nH, ferrite for 1200nH to 22,000nH

DIMENSIONS: in.

For quantities of 4,000 and up, call for quote.

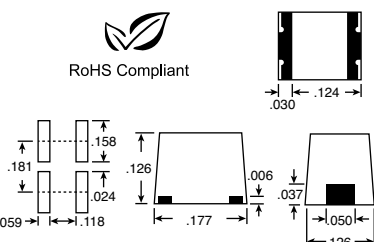
| MOUSER STOCK NO. | L (μH) | Tol. ± | Q Min | Test Freq MHz | SRF Min. MHz | DCR Max. (Ω) | Rated DC Curr. (mA) | Price Each | | | Reel Price Each |
|------------------|--------|--------|-------|---------------|--------------|--------------|---------------------|------------|----|-----|-----------------|
| | | | | | | | | 1 | 50 | 100 | 2000 |
| 70-IMC1210ERR10M | 0.1 | 20% | 30 | 50 | 700 | 0.44 | 450 | | | | |
| 70-IMC1210ERR22M | 0.22 | 20% | 30 | 25.2 | 350 | 0.32 | 484 | | | | |
| 70-IMC1210ER1R0K | 1 | 10% | 30 | 7.96 | 120 | 0.7 | 400 | | | | |
| 70-IMC1210ER2R2K | 2.2 | 10% | 30 | 7.96 | 75 | 1 | 320 | | | | |
| 70-IMC1210ER2R7K | 2.7 | 10% | 30 | 7.96 | 70 | 1.1 | 290 | | | | |
| 70-IMC1210ER3R3K | 3.3 | 10% | 30 | 7.96 | 60 | 1.2 | 260 | | | | |
| 70-IMC1210ER4R7K | 4.7 | 10% | 30 | 7.96 | 50 | 1.5 | 224 | | | | |
| 70-IMC1210ER100K | 10 | 10% | 30 | 2.52 | 33 | 2.1 | 189 | | | | |
| 70-IMC1210ER220K | 22 | 10% | 30 | 2.52 | 19 | 3.7 | 145 | | | | |
| 70-IMC1210ER101K | 100 | 10% | 20 | 0.796 | 9 | 14 | 73 | | | | |

IMC-1812 MOLDED SURFACE MOUNT INDUCTORS

Features:

- Molded construction provides superior strength and moisture resistance
- Printed marking
- Compatible with vapor phase and infrared reflow soldering

RoHS Compliant



Specifications:

- Inductance tolerance: ±10%
- Temperature range: -40°C to +105°C
- Core material: powdered iron for 1.0μH to 100μH, ferrite for 150μH to 1000μH

For quantities of 1,000 and up, call for quote.

| MOUSER STOCK NO. | L (μH) | Tol. ± | Q Min | Test Freq MHz | SRF Min. MHz | DCR Max. (Ω) | Rated DC Curr. (mA) | Price Each | | | Reel Price Each |
|------------------|--------|--------|-------|---------------|--------------|--------------|---------------------|------------|----|-----|-----------------|
| | | | | | | | | 1 | 50 | 100 | 500 |
| 70-IMC1812ER1R0K | 1 | 10% | 50 | 7.96 | 100 | 0.5 | 450 | | | | |
| 70-IMC1812ER1R2K | 1.2 | 10% | 50 | 7.96 | 80 | 0.55 | 430 | | | | |
| 70-IMC1812ER1R5K | 1.5 | 10% | 50 | 7.96 | 70 | .60 | 410 | | | | |
| 70-IMC1812ER2R7K | 2.7 | 10% | 50 | 7.96 | 50 | 0.75 | 370 | | | | |
| 70-IMC1812ER4R7K | 4.7 | 10% | 50 | 7.96 | 35 | 1 | 315 | | | | |
| 70-IMC1812ER5R6K | 5.6 | 10% | 50 | 7.96 | 33 | 1.1 | 300 | | | | |
| 70-IMC1812ER100K | 10 | 10% | 50 | 2.52 | 20 | 1.6 | 250 | | | | |
| 70-IMC1812ER150K | 15 | 10% | 50 | 2.52 | 17 | 2.5 | 200 | | | | |
| 70-IMC1812ER220K | 22 | 10% | 50 | 2.52 | 13 | 3.2 | 180 | | | | |
| 70-IMC1812ER470K | 47 | 10% | 50 | 2.52 | 10 | 5 | 140 | | | | |
| 70-IMC1812ER101K | 100 | 10% | 40 | 0.79 | 8 | 8 | 110 | | | | |
| 70-IMC1812ER221K | 220 | 10% | 40 | 0.79 | 4 | 10 | 100 | | | | |
| 70-IMC1812ER331K | 330 | 10% | 40 | 0.79 | 3.5 | 14 | 85 | | | | |
| 70-IMC1812ER102K | 1000 | 10% | 30 | 0.25 | 2.5 | 40 | 30 | | | | |