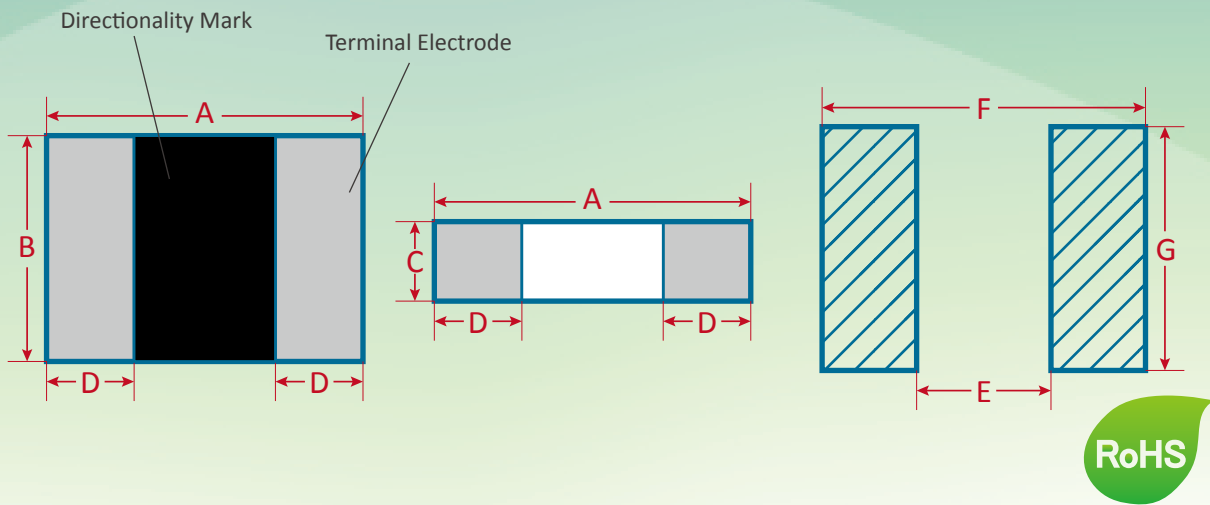


ML Series

SMD Ceramic Chip Inductor

Shape and Dimensions(mm):



| Item | A | B | C | D | E | F | G |
|------|----------|----------|----------|---------|----------|----------|----------|
| ML03 | 1.6±0.15 | 0.8±0.15 | 0.8±0.15 | 0.3±0.2 | 0.8 Typ. | 2.0 Typ. | 0.8 Typ. |

MARKING 會因生產設備不同, 而有所差異

ML03

| Part No. | Inductance (nH) | Q Min. | Test Freq. (MHz) | DCR(mΩ) Max. | SRF(MHz) Typ. | Idc(A) Max. | Tolerance (±%) |
|-----------|-----------------|--------|------------------|--------------|---------------|-------------|----------------|
| ML03ST1N0 | 1.0 | 8.0 | 100 | 100 | 10000 | 0.6 | 0.3nH |
| ML03ST1N2 | 1.2 | 8.0 | 100 | 100 | 10000 | 0.6 | 0.3nH |
| ML03ST1N5 | 1.5 | 8.0 | 100 | 100 | 8000 | 0.6 | 0.3nH |
| ML03ST1N6 | 1.6 | 8.0 | 100 | 100 | 8000 | 0.6 | 0.3nH |
| ML03ST1N8 | 1.8 | 8.0 | 100 | 100 | 8000 | 0.6 | 0.3nH |
| ML03ST2N2 | 2.2 | 8.0 | 100 | 100 | 7200 | 0.6 | 0.3nH |
| ML03ST2N7 | 2.7 | 10 | 100 | 100 | 6200 | 0.6 | 0.3nH |
| ML03ST3N0 | 3.0 | 10 | 100 | 120 | 5200 | 0.6 | 0.3nH |
| ML03ST3N3 | 3.3 | 10 | 100 | 120 | 5200 | 0.6 | 0.3nH |
| ML03ST3N6 | 3.6 | 10 | 100 | 140 | 5000 | 0.6 | 0.3nH |
| ML03ST3N9 | 3.9 | 10 | 100 | 140 | 5000 | 0.6 | 0.3nH |
| ML03ST4N3 | 4.3 | 10 | 100 | 160 | 4750 | 0.6 | 0.3nH |
| ML03ST4N7 | 4.7 | 10 | 100 | 160 | 4750 | 0.6 | 0.3nH |
| ML03ST5N1 | 5.1 | 10 | 100 | 180 | 4100 | 0.6 | 0.3nH |
| ML03ST5N6 | 5.6 | 10 | 100 | 180 | 4100 | 0.6 | 0.3nH |
| ML03JT6N2 | 6.2 | 10 | 100 | 220 | 3750 | 0.6 | 5 |
| ML03JT6N8 | 6.8 | 10 | 100 | 220 | 3750 | 0.6 | 5 |
| ML03JT7N5 | 7.5 | 10 | 100 | 240 | 3300 | 0.6 | 5 |
| ML03JT8N2 | 8.2 | 10 | 100 | 240 | 3300 | 0.6 | 5 |
| ML03JT10N | 10 | 12 | 100 | 260 | 3000 | 0.6 | 5 |
| ML03JT12N | 12 | 12 | 100 | 280 | 2600 | 0.6 | 5 |
| ML03JT15N | 15 | 12 | 100 | 320 | 2500 | 0.6 | 5 |
| ML03JT16N | 16 | 12 | 100 | 350 | 2400 | 0.6 | 5 |
| ML03JT18N | 18 | 12 | 100 | 350 | 2400 | 0.6 | 5 |
| ML03JT22N | 22 | 12 | 100 | 400 | 2000 | 0.5 | 5 |

| Part No. | Inductance (nH) | Q Min. | Test Freq. (MHz) | DCR(mΩ) Max. | SRF(MHz) Typ. | Idc(A) Max. | Tolerance (±%) |
|-----------|--------------------|-----------|---------------------|-----------------|------------------|----------------|-------------------|
| ML03JT27N | 27 | 12 | 100 | 450 | 1900 | 0.5 | 5 |
| ML03JT33N | 33 | 12 | 100 | 550 | 1600 | 0.4 | 5 |
| ML03JT39N | 39 | 12 | 100 | 600 | 1400 | 0.4 | 5 |
| ML03JT47N | 47 | 12 | 100 | 700 | 1300 | 0.4 | 5 |
| ML03JT56N | 56 | 12 | 100 | 750 | 1100 | 0.4 | 5 |
| ML03JT62N | 62 | 12 | 100 | 850 | 1050 | 0.4 | 5 |
| ML03JT68N | 68 | 12 | 100 | 850 | 1050 | 0.4 | 5 |
| ML03JT75N | 75 | 12 | 100 | 1000 | 900 | 0.3 | 5 |
| ML03JT82N | 82 | 12 | 100 | 1000 | 900 | 0.3 | 5 |
| ML03JTR10 | 100 | 12 | 100 | 1200 | 770 | 0.3 | 5 |
| ML03JTR12 | 120 | 8.0 | 50 | 1300 | 650 | 0.3 | 5 |
| ML03JTR15 | 150 | 8.0 | 50 | 1700 | 550 | 0.25 | 5 |
| ML03JTR18 | 180 | 8.0 | 50 | 1900 | 520 | 0.25 | 5 |
| ML03JTR22 | 220 | 8.0 | 50 | 2000 | 500 | 0.25 | 5 |
| ML03JTR27 | 270 | 8.0 | 50 | 2200 | 470 | 0.15 | 5 |
| ML03JTR33 | 330 | 8.0 | 50 | 2800 | 320 | 0.1 | 5 |
| ML03JTR39 | 390 | 8.0 | 50 | 3000 | 300 | 0.1 | 5 |

Ordering information

ML - 03 - S - T - 1N0

(1) (2) (3) (4) (5)

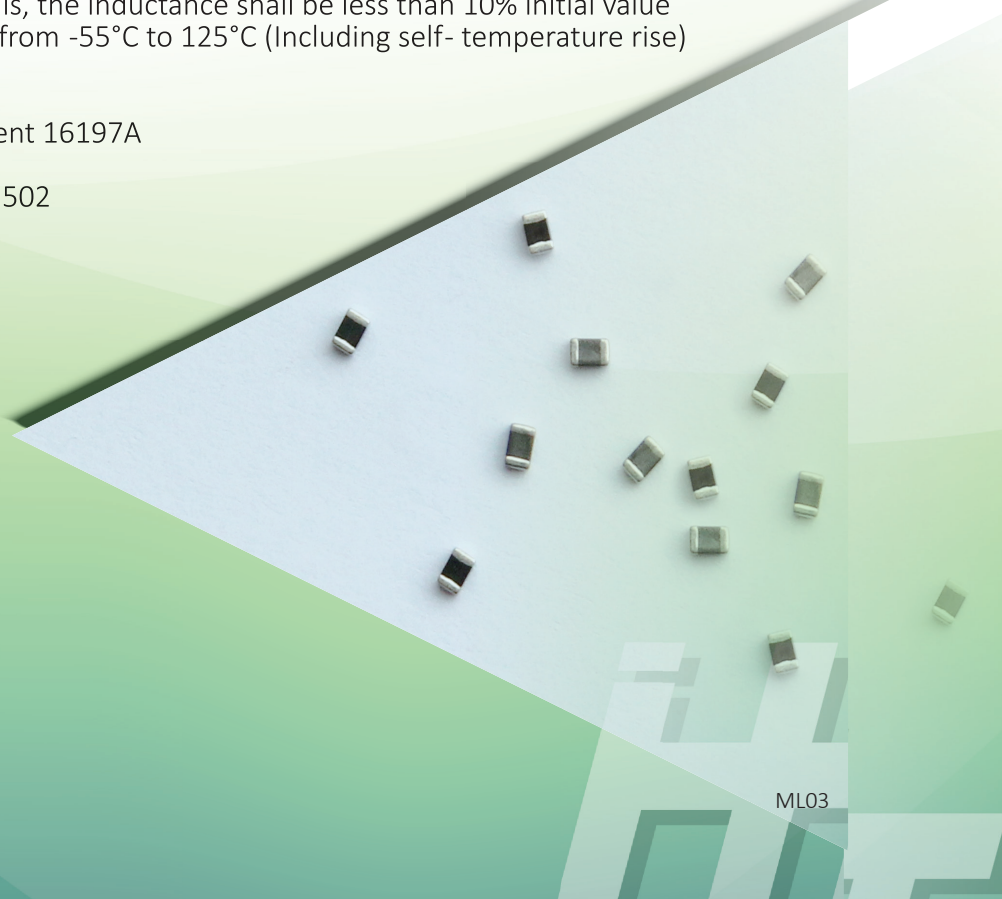
- (1) Type : Surface Mountable Type
- (2) Size : 03(0603) is size
- (3) Tolerance : S= ±0.3nH, J=5%
- (4) Packaging style : Taping Reel
- (5) Inductance : 1N0 for 1.0nH, 10N for 10nH, R10 for 100nH...

Characteristics

- Idc : Applied the current to coils, the inductance shall be less than 10% initial value
- Operating temperature range from -55°C to 125°C (Including self- temperature rise)

Test equipment

- L and Q : Agilent E4991A+Agilent 16197A
- SRF : HP8753D
- DCR : HP4338B or CHEN HWA 502



Packing

