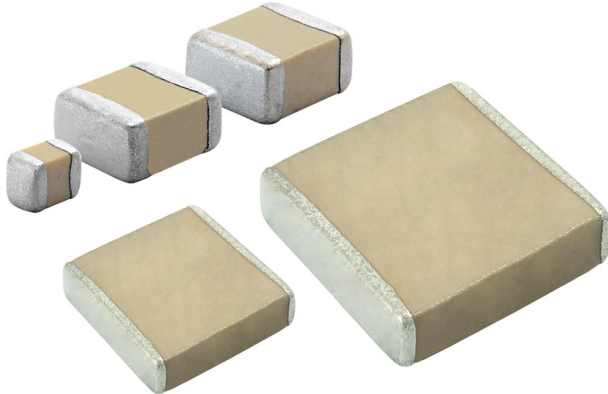


Surface Mount Multilayer Ceramic Capacitors for RF Power Applications



FEATURES

- Case size 0505 and 1111 and 2525
- Ultra-stable, high Q dielectric material
- Lead (Pb)-free terminations code “X”
- Tin/lead termination code “L”
- Reliable Noble Metal Electrode (NME) system
- High frequency
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912



Note

* This datasheet provides information about parts that are RoHS-compliant and/or parts that are non-RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information/tables in this datasheet for details.

APPLICATIONS

- MRI coils and generators
- RF instruments
- Lasers, CATV, UHF/microwave RF power amplifiers
- Filter networks, timing circuits
- Mixers, oscillators impedance matching networks

ELECTRICAL SPECIFICATIONS

Note

- Electrical characteristics at 25 °C unless otherwise specified

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

Capacitance Range:

0505: 1.0 pF to 100 pF

1111: 1.0 pF to 1000 pF

2525: 1.0 pF to 2700 pF

Voltage Rating:

0505: 200 V_{DC} to 250 V_{DC}

1111: 300 V_{DC} to 1500 V_{DC}

2525: 300 V_{DC} to 3600 V_{DC}

Temperature Coefficient of Capacitance (TCC):

C0G (D): 0 ppm/°C ± 30 ppm/°C from -55 °C to +125 °C with zero (0) V_{DC} applied

Dissipation Factor (DF):

C0G (D): 0.05 % max. at 1.0 V_{RMS} and 1 MHz
for values ≤ 1000 pF

C0G (D): 0.05 % max. at 1.0 V_{RMS} and 1 kHz
for values > 1000 pF

Aging Rate: 0 % maximum per decade

Insulation Resistance (IR):

At +25 °C and rated voltage 100 000 MΩ minimum or 1000 ΩF, whichever is less

At +125 °C and rated voltage 10 000 MΩ minimum or 100 ΩF, whichever is less

Dielectric Strength Test:

Performed per method 103 of EIA-198-2-E.

Applied test voltages:

≤ 250 V_{DC}-rated: Min. 250 % of rated voltage

300 V_{DC}-rated: Min. 150 % of rated voltage

630 V_{DC}- to 1000 V_{DC}-rated: 150 % of rated voltage

1500 V_{DC} and up: 120 % rated voltage

| QUICK REFERENCE DATA | | | | |
|----------------------|------|---------------------|-------------|---------|
| DIELECTRIC | CASE | MAXIMUM VOLTAGE (V) | CAPACITANCE | |
| | | | MINIMUM | MAXIMUM |
| D = NP0 | 0505 | 250 | 1.0 pF | 100 pF |
| | 1111 | 1500 | 1.0 pF | 1000 pF |
| | 2525 | 3600 | 1.0 pF | 2700 pF |

Notes

- For values below 1.0 pF and tolerance ± 0.05 pF, contact mlcc@vishay.com
Detail ratings see "Selection Chart"

ORDERING INFORMATION

| VJ0505 | D | 1R0 | B | X | C | A | C |
|----------------------|------------|--|--|--|--|----------------|--|
| CASE CODE | DIELECTRIC | CAPACITANCE NOMINAL CODE | CAPACITANCE TOLERANCE | TERMINATION | DC VOLTAGE RATING ⁽¹⁾ | MARKING | PACKAGING |
| 0505 1111 2525 | D = HIFREQ | Expressed in picofarads (pF). The first two digits are significant, the third is a multiplier. An "R" indicates a decimal point. Examples: 1R0 = 1.0 pF | B = ± 0.10 pF C = ± 0.25 pF D = ± 0.50 pF F = ± 1 % G = ± 2 % J = ± 5 % K = ± 10 % M = ± 20 % Note Details see "Selection Chart" | X = Ni barrier 100 % tin plate matte finish L = Ni barrier with tin lead plated finish min. 4 % lead | C = 200 V P = 250 V D = 300 V E = 500 V L = 630 V I = 800 V G = 1000 V R = 1500 V F = 2000 V O = 2500 V H = 3000 V W = 3600 V | A = No marking | T = 7" reel/plastic tape C = 7" reel/paper tape J = 7" reel (low quantity) R = 11 1/4"/13" reel/ plastic tape P = 11 1/4"/13" reel/ paper tape |

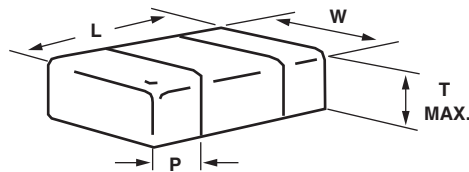
Note

- ⁽¹⁾ DC voltage rating should not be exceeded in application

ENVIRONMENTAL STATUS

| TERMINATION CODE | TERMINATION DESCRIPTION | RoHS COMPLIANT | VISHAY GREEN |
|------------------|--|----------------|--------------|
| X | Ni barrier 100 % tin plated matte finish | Yes | Yes |
| L | Ni barrier with tin lead plated finish min. 4 % lead | No | No |

DIMENSIONS in inches (millimeters)



| CASE CODE | STYLE | LENGTH (L) | WIDTH (W) | MAXIMUM THICKNESS (T) | TERMINATIONS PAD (P) | |
|-----------|--------|---|---|-----------------------|----------------------|-----------------|
| | | | | | MINIMUM | MAXIMUM |
| 0505 | VJ0505 | 0.055 \pm 0.025 (1.40 \pm 0.64) | 0.055 \pm 0.015 (1.40 \pm 0.38) | 0.057 (1.45) | 0.004 (0.10) | 0.016 (0.41) |
| 1111 | VJ1111 | 0.117 \pm 0.028 (2.98 \pm 0.70) | 0.110 \pm 0.030 (2.79 \pm 0.76) | 0.102 (2.59) | 0.012 (0.30) | 0.018 (0.46) |
| 2525 | VJ2525 | 0.250 + 0.020/- 0.030 (6.35 + 0.508/- 0.762) | 0.250 \pm 0.015 (6.35 \pm 0.381) | 0.102 (2.59) | 0.010 (0.25) | 0.030 (0.76) |



| SELECTION CHART | | | | |
|----------------------------|--------|---------|-----|---------------|
| DIELECTRIC (VISHAY CODE) | | C0G (D) | | |
| STYLE | | VJ0505 | | TOLERANCE |
| CASE CODE | | 0505 | | |
| VOLTAGE (V _{DC}) | | 200 | 250 | |
| VOLTAGE CODE | | C | P | |
| CAP. CODE | CAP. | | | |
| 1R0 | 1.0 pF | • | • | B, C, D |
| 1R1 | 1.1 pF | • | • | B, C, D |
| 1R2 | 1.2 pF | • | • | B, C, D |
| 1R3 | 1.3 pF | • | • | B, C, D |
| 1R4 | 1.4 pF | • | • | B, C, D |
| 1R5 | 1.5 pF | • | • | B, C, D |
| 1R6 | 1.6 pF | • | • | B, C, D |
| 1R7 | 1.7 pF | • | • | B, C, D |
| 1R8 | 1.8 pF | • | • | B, C, D |
| 1R9 | 1.9 pF | • | • | B, C, D |
| 2R0 | 2.0 pF | • | • | B, C, D |
| 2R1 | 2.1 pF | • | • | B, C, D |
| 2R2 | 2.2 pF | • | • | B, C, D |
| 2R4 | 2.4 pF | • | • | B, C, D |
| 2R7 | 2.7 pF | • | • | B, C, D |
| 3R0 | 3.0 pF | • | • | B, C, D |
| 3R3 | 3.3 pF | • | • | B, C, D |
| 3R6 | 3.6 pF | • | • | B, C, D |
| 3R9 | 3.9 pF | • | • | B, C, D |
| 4R3 | 4.3 pF | • | • | B, C, D |
| 4R7 | 4.7 pF | • | • | B, C, D |
| 5R1 | 5.1 pF | • | • | B, C, D |
| 5R6 | 5.6 pF | • | • | B, C, D |
| 6R2 | 6.2 pF | • | • | B, C, D |
| 6R8 | 6.8 pF | • | • | B, C, D |
| 7R5 | 7.5 pF | • | • | B, C, D |
| 8R2 | 8.2 pF | • | • | B, C, D |
| 9R1 | 9.1 pF | • | • | B, C, D |
| 100 | 10 pF | • | • | F, G, J, K, M |
| 110 | 11 pF | • | • | F, G, J, K, M |
| 120 | 12 pF | • | • | F, G, J, K, M |
| 130 | 13 pF | • | • | F, G, J, K, M |
| 150 | 15 pF | • | • | F, G, J, K, M |
| 180 | 18 pF | • | • | F, G, J, K, M |
| 200 | 20 pF | • | • | F, G, J, K, M |
| 220 | 22 pF | • | • | F, G, J, K, M |
| 240 | 24 pF | • | • | F, G, J, K, M |
| 270 | 27 pF | • | • | F, G, J, K, M |
| 300 | 30 pF | • | • | F, G, J, K, M |
| 330 | 33 pF | • | • | F, G, J, K, M |
| 360 | 36 pF | • | • | F, G, J, K, M |
| 390 | 39 pF | • | • | F, G, J, K, M |
| 430 | 43 pF | • | • | F, G, J, K, M |
| 470 | 47 pF | • | • | F, G, J, K, M |
| 510 | 51 pF | • | • | F, G, J, K, M |
| 560 | 56 pF | • | • | F, G, J, K, M |
| 620 | 62 pF | • | | F, G, J, K, M |
| 680 | 68 pF | • | | F, G, J, K, M |
| 750 | 75 pF | • | | F, G, J, K, M |
| 820 | 82 pF | • | | F, G, J, K, M |
| 910 | 91 pF | • | | F, G, J, K, M |
| 101 | 100 pF | • | | F, G, J, K, M |

Notes

- RoHS-compliant except when supplied with lead (Pb)-containing termination, code "L"
- Plastic carrier tape



| SELECTION CHART | | | | | | |
|----------------------------|--------|---------|-----|------|------|---------------|
| DIELECTRIC (VISHAY CODE) | | COG (D) | | | | TOLERANCE |
| STYLE | | VJ1111 | | | | |
| CASE CODE | | 1111 | | | | |
| VOLTAGE (V _{DC}) | | 300 | 630 | 1000 | 1500 | |
| VOLTAGE CODE | | D | L | G | R | |
| CAP. CODE | CAP. | | | | | |
| 1R0 | 1.0 pF | • | • | • | • | B, C, D |
| 1R1 | 1.1 pF | • | • | • | • | B, C, D |
| 1R2 | 1.2 pF | • | • | • | • | B, C, D |
| 1R3 | 1.3 pF | • | • | • | • | B, C, D |
| 1R4 | 1.4 pF | • | • | • | • | B, C, D |
| 1R5 | 1.5 pF | • | • | • | • | B, C, D |
| 1R6 | 1.6 pF | • | • | • | • | B, C, D |
| 1R7 | 1.7 pF | • | • | • | • | B, C, D |
| 1R8 | 1.8 pF | • | • | • | • | B, C, D |
| 1R9 | 1.9 pF | • | • | • | • | B, C, D |
| 2R0 | 2.0 pF | • | • | • | • | B, C, D |
| 2R1 | 2.1 pF | • | • | • | • | B, C, D |
| 2R2 | 2.2 pF | • | • | • | • | B, C, D |
| 2R4 | 2.4 pF | • | • | • | • | B, C, D |
| 2R7 | 2.7 pF | • | • | • | • | B, C, D |
| 3R0 | 3.0 pF | • | • | • | • | B, C, D |
| 3R3 | 3.3 pF | • | • | • | • | B, C, D |
| 3R6 | 3.6 pF | • | • | • | • | B, C, D |
| 3R9 | 3.9 pF | • | • | • | • | B, C, D |
| 4R3 | 4.3 pF | • | • | • | • | B, C, D |
| 4R7 | 4.7 pF | • | • | • | • | B, C, D |
| 5R1 | 5.1 pF | • | • | • | • | B, C, D |
| 5R6 | 5.6 pF | • | • | • | • | B, C, D |
| 6R2 | 6.2 pF | • | • | • | • | B, C, D |
| 6R8 | 6.8 pF | • | • | • | • | B, C, D |
| 7R5 | 7.5 pF | • | • | • | • | B, C, D |
| 8R2 | 8.2 pF | • | • | • | • | B, C, D |
| 9R1 | 9.1 pF | • | • | • | • | B, C, D |
| 100 | 10 pF | • | • | • | • | F, G, J, K, M |
| 110 | 11 pF | • | • | • | • | F, G, J, K, M |
| 120 | 12 pF | • | • | • | • | F, G, J, K, M |
| 130 | 13 pF | • | • | • | • | F, G, J, K, M |
| 150 | 15 pF | • | • | • | • | F, G, J, K, M |
| 180 | 18 pF | • | • | • | • | F, G, J, K, M |
| 200 | 20 pF | • | • | • | • | F, G, J, K, M |
| 220 | 22 pF | • | • | • | • | F, G, J, K, M |
| 240 | 24 pF | • | • | • | • | F, G, J, K, M |
| 270 | 27 pF | • | • | • | • | F, G, J, K, M |
| 300 | 30 pF | • | • | • | • | F, G, J, K, M |
| 330 | 33 pF | • | • | • | • | F, G, J, K, M |
| 360 | 36 pF | • | • | • | • | F, G, J, K, M |
| 390 | 39 pF | • | • | • | • | F, G, J, K, M |
| 430 | 43 pF | • | • | • | • | F, G, J, K, M |
| 470 | 47 pF | • | • | • | • | F, G, J, K, M |
| 510 | 51 pF | • | • | • | • | F, G, J, K, M |
| 560 | 56 pF | • | • | • | • | F, G, J, K, M |
| 620 | 62 pF | • | • | • | • | F, G, J, K, M |
| 680 | 68 pF | • | • | • | • | F, G, J, K, M |
| 750 | 75 pF | • | • | • | • | F, G, J, K, M |
| 820 | 82 pF | • | • | • | • | F, G, J, K, M |
| 910 | 91 pF | • | • | • | • | F, G, J, K, M |

Notes

- RoHS-compliant except when supplied with lead (Pb)-containing termination, code "L"
- Plastic carrier tape



| SELECTION CHART | | | | | | |
|----------------------------|--------|---------|-----|------|------|---------------|
| DIELECTRIC (VISHAY CODE) | | COG (D) | | | | TOLERANCE |
| STYLE | | VJ1111 | | | | |
| CASE CODE | | 1111 | | | | |
| VOLTAGE (V _{DC}) | | 300 | 630 | 1000 | 1500 | |
| VOLTAGE CODE | | D | L | G | R | |
| CAP. CODE | CAP. | | | | | |
| 101 | 100 pF | • | • | • | • | F, G, J, K, M |
| 111 | 110 pF | • | • | • | • | F, G, J, K, M |
| 121 | 120 pF | • | • | • | | F, G, J, K, M |
| 131 | 130 pF | • | • | • | | F, G, J, K, M |
| 151 | 150 pF | • | • | • | | F, G, J, K, M |
| 181 | 180 pF | • | • | • | | F, G, J, K, M |
| 201 | 200 pF | • | • | | | F, G, J, K, M |
| 221 | 220 pF | • | • | | | F, G, J, K, M |
| 241 | 240 pF | • | • | | | F, G, J, K, M |
| 301 | 300 pF | • | • | | | F, G, J, K, M |
| 331 | 330 pF | • | • | | | F, G, J, K, M |
| 361 | 360 pF | • | • | | | F, G, J, K, M |
| 391 | 390 pF | • | • | | | F, G, J, K, M |
| 431 | 430 pF | • | • | | | F, G, J, K, M |
| 471 | 470 pF | • | • | | | F, G, J, K, M |
| 511 | 510 pF | • | | | | F, G, J, K, M |
| 561 | 560 pF | • | | | | F, G, J, K, M |
| 621 | 620 pF | • | | | | F, G, J, K, M |
| 681 | 680 pF | • | | | | F, G, J, K, M |
| 751 | 750 pF | • | | | | F, G, J, K, M |
| 821 | 820 pF | • | | | | F, G, J, K, M |
| 911 | 910 pF | • | | | | F, G, J, K, M |
| 102 | 1.0 nF | • | | | | F, G, J, K, M |
| 112 | 1.1 nF | | | | | |
| 122 | 1.2 nF | | | | | |
| 132 | 1.3 nF | | | | | |
| 152 | 1.5 nF | | | | | |
| 182 | 1.8 nF | | | | | |

Notes

- RoHS-compliant except when supplied with lead (Pb)-containing termination, code "L"
- Plastic carrier tape



| SELECTION CHART | | | | | | | | | | | |
|----------------------------|--------|---------|-----|-----|------|------|------|------|------|------|---------------|
| DIELECTRIC (VISHAY CODE) | | C0G (D) | | | | | | | | | TOLERANCE |
| STYLE | | VJ2525 | | | | | | | | | |
| CASE CODE | | 2525 | | | | | | | | | |
| VOLTAGE (V _{DC}) | | 300 | 500 | 800 | 1000 | 1500 | 2000 | 2500 | 3000 | 3600 | |
| VOLTAGE CODE | | D | E | I | G | R | F | O | H | W | |
| CAP. CODE | CAP. | | | | | | | | | | |
| 1R0 | 1.0 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 1R1 | 1.1 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 1R2 | 1.2 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 1R3 | 1.3 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 1R4 | 1.4 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 1R5 | 1.5 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 1R6 | 1.6 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 1R7 | 1.7 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 1R8 | 1.8 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 1R9 | 1.9 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 2R0 | 2.0 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 2R1 | 2.1 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 2R2 | 2.2 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 2R4 | 2.4 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 2R7 | 2.7 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 3R0 | 3.0 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 3R3 | 3.3 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 3R6 | 3.6 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 3R9 | 3.9 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 4R3 | 4.3 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 4R7 | 4.7 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 5R1 | 5.1 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 5R6 | 5.6 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 6R2 | 6.2 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 6R8 | 6.8 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 7R5 | 7.5 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 8R2 | 8.2 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 9R1 | 9.1 pF | • | • | • | • | • | • | • | • | • | B, C, D |
| 100 | 10 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 110 | 11 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 120 | 12 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 130 | 13 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 150 | 15 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 160 | 16 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 180 | 18 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 200 | 20 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 220 | 22 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 240 | 24 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 270 | 27 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 300 | 30 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 330 | 33 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 360 | 36 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 390 | 39 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 430 | 43 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 470 | 47 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 510 | 51 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 560 | 56 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 620 | 62 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 680 | 68 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 750 | 75 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 820 | 82 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 910 | 91 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |

Notes

- RoHS-compliant except when supplied with lead (Pb)-containing termination, code "L"
- Plastic carrier tape
- For tolerance B contact mlccrf@vishay.com



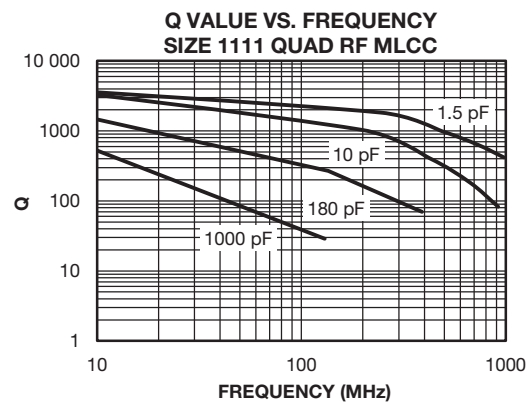
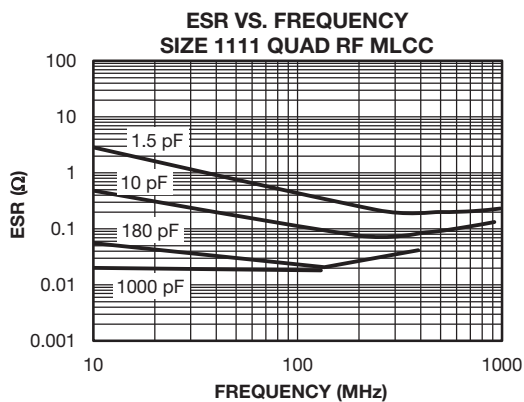
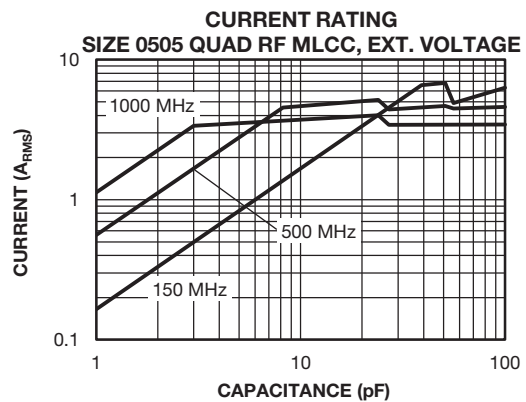
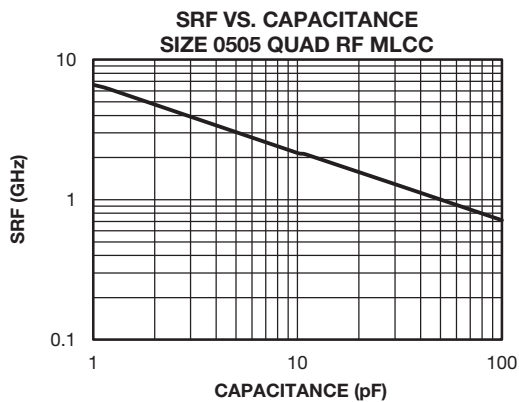
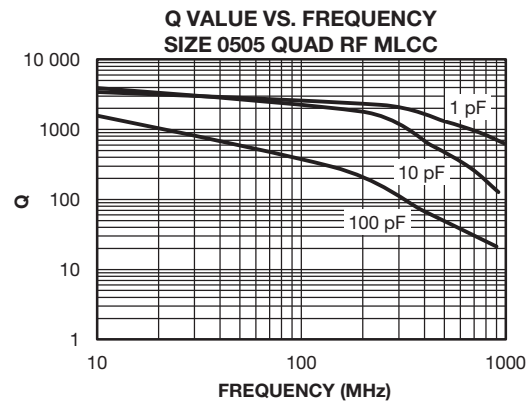
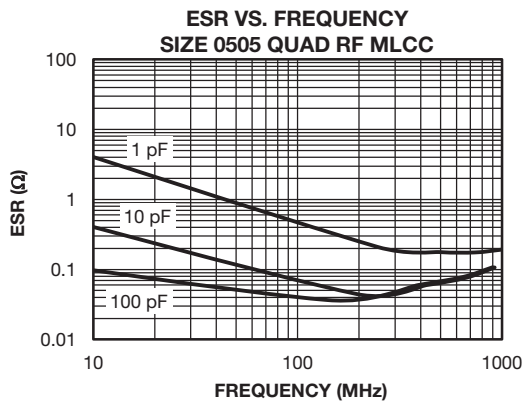
| SELECTION CHART | | | | | | | | | | | |
|----------------------------|--------|---------|-----|-----|------|------|------|------|------|------|---------------|
| DIELECTRIC (VISHAY CODE) | | COG (D) | | | | | | | | | TOLERANCE |
| STYLE | | VJ2525 | | | | | | | | | |
| CASE CODE | | 2525 | | | | | | | | | |
| VOLTAGE (V _{DC}) | | 300 | 500 | 800 | 1000 | 1500 | 2000 | 2500 | 3000 | 3600 | |
| VOLTAGE CODE | | D | E | I | G | R | F | O | H | W | |
| CAP. CODE | CAP. | | | | | | | | | | |
| 101 | 100 pF | • | • | • | • | • | • | • | • | • | F, G, J, K, M |
| 111 | 110 pF | • | • | • | • | • | • | • | • | | F, G, J, K, M |
| 121 | 120 pF | • | • | • | • | • | • | • | • | | F, G, J, K, M |
| 131 | 130 pF | • | • | • | • | • | • | • | • | | F, G, J, K, M |
| 151 | 150 pF | • | • | • | • | • | • | • | • | | F, G, J, K, M |
| 161 | 160 pF | • | • | • | • | • | • | • | • | | F, G, J, K, M |
| 181 | 180 pF | • | • | • | • | • | • | • | • | | F, G, J, K, M |
| 201 | 200 pF | • | • | • | • | • | • | • | • | | F, G, J, K, M |
| 221 | 220 pF | • | • | • | • | • | • | • | • | | F, G, J, K, M |
| 241 | 240 pF | • | • | • | • | • | • | • | • | | F, G, J, K, M |
| 271 | 270 pF | • | • | • | • | • | • | • | • | | F, G, J, K, M |
| 301 | 300 pF | • | • | • | • | • | • | | | | F, G, J, K, M |
| 331 | 330 pF | • | • | • | • | • | • | | | | F, G, J, K, M |
| 361 | 360 pF | • | • | • | • | • | • | | | | F, G, J, K, M |
| 391 | 390 pF | • | • | • | • | • | • | | | | F, G, J, K, M |
| 431 | 430 pF | • | • | • | • | • | • | | | | F, G, J, K, M |
| 471 | 470 pF | • | • | • | • | • | • | | | | F, G, J, K, M |
| 511 | 510 pF | • | • | • | • | • | | | | | F, G, J, K, M |
| 561 | 560 pF | • | • | • | • | • | | | | | F, G, J, K, M |
| 621 | 620 pF | • | • | • | • | • | | | | | F, G, J, K, M |
| 681 | 680 pF | • | • | • | • | • | | | | | F, G, J, K, M |
| 751 | 750 pF | • | • | • | • | • | | | | | F, G, J, K, M |
| 821 | 820 pF | • | • | • | • | • | | | | | F, G, J, K, M |
| 911 | 910 pF | • | • | • | • | • | | | | | F, G, J, K, M |
| 102 | 1.0 nF | • | • | • | • | • | | | | | F, G, J, K, M |
| 112 | 1.1 nF | • | • | • | • | • | | | | | F, G, J, K, M |
| 122 | 1.2 nF | • | • | • | • | • | | | | | F, G, J, K, M |
| 152 | 1.5 nF | • | • | • | | | | | | | F, G, J, K, M |
| 182 | 1.8 nF | • | • | • | | | | | | | F, G, J, K, M |
| 222 | 2.0 nF | • | • | • | | | | | | | F, G, J, K, M |
| 242 | 2.4 nF | • | | | | | | | | | F, G, J, K, M |
| 272 | 2.7 nF | • | | | | | | | | | F, G, J, K, M |

Notes

- RoHS-compliant except when supplied with lead (Pb)-containing termination, code "L"
- Plastic carrier tape
- For tolerance B contact mlccrf@vishay.com

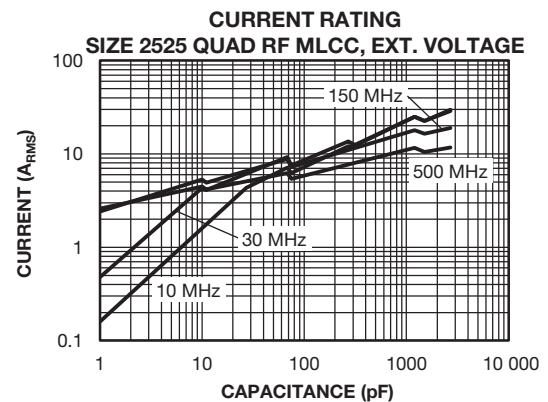
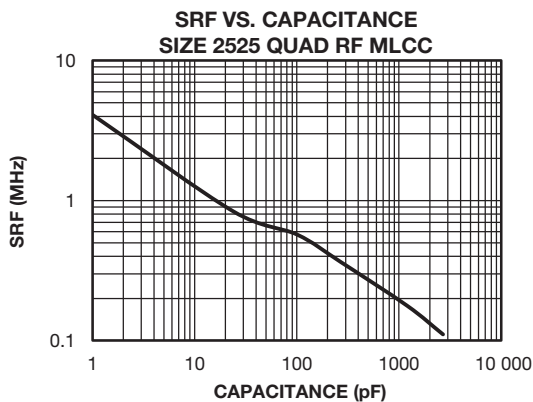
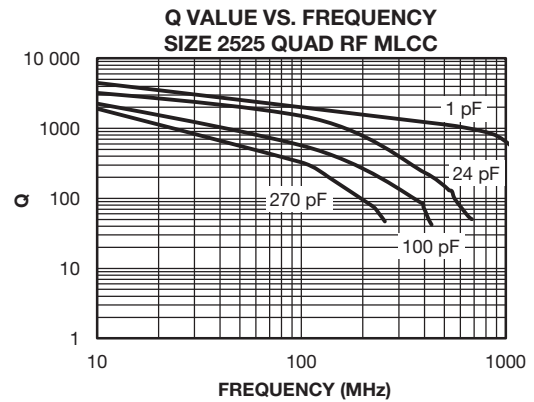
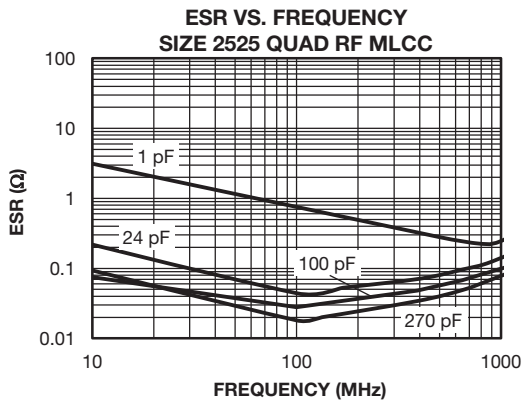
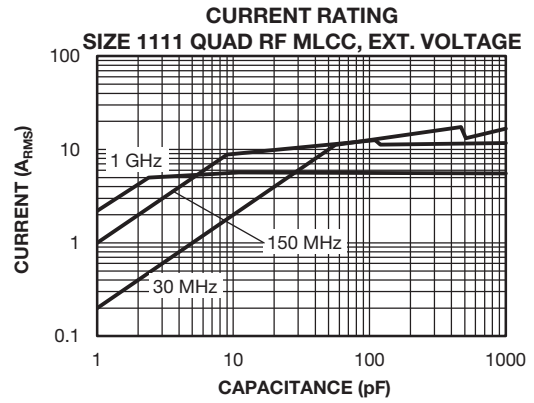
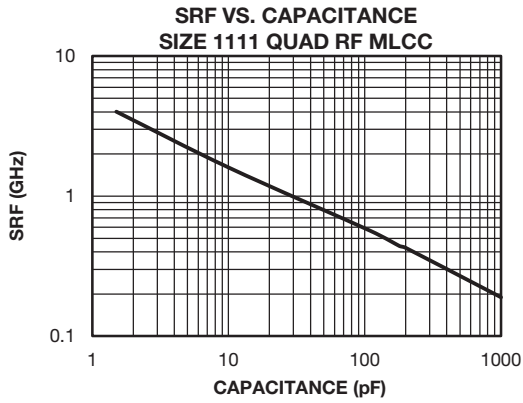


QUAD HIGH FREQ DIELECTRIC - TYPICAL PARAMETERS



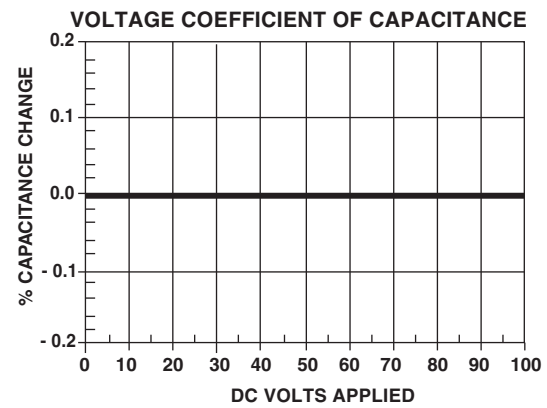
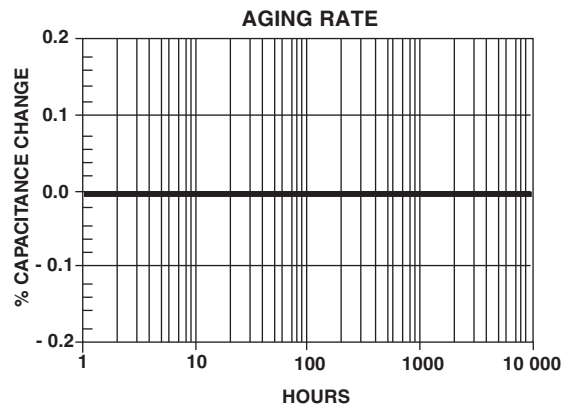
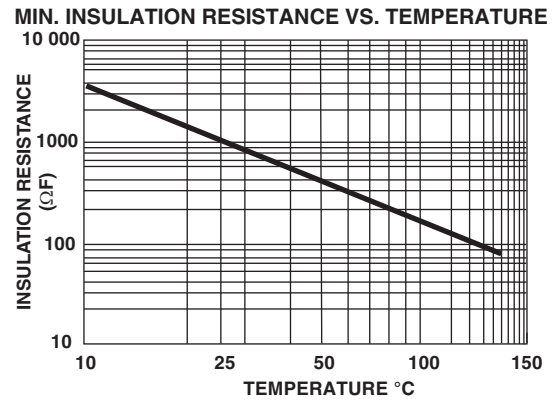
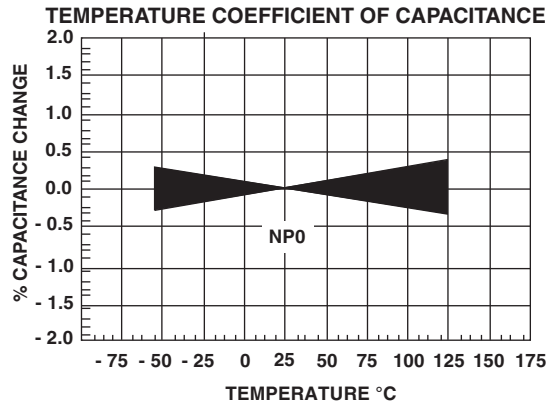


QUAD HIGH FREQ DIELECTRIC - TYPICAL PARAMETERS





QUAD HIGH FREQ DIELECTRIC - TYPICAL PARAMETERS



STANDARD PACKAGING QUANTITIES (1)(2)(3)

| CASE CODE | TAPE SIZE | 7" REEL QUANTITIES | | | 11 1/4" AND 13" REEL QUANTITIES | |
|-----------|-----------|---------------------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|
| | | PLASTIC TAPE PACKAGING CODE "C" | PLASTIC TAPE PACKAGING CODE "T" | LOW QUANTITY "J" (5) | PAPER TAPE PACKAGING CODE "P" | PLASTIC TAPE PACKAGING CODE "R" |
| 0505 | 8 mm | 3000 | n/a | 1000 | 10 000 | 10 000 |
| 1111 (4) | 8 mm | n/a | 3000 | 1000 | 10 000 | 10 000 |
| 2525 | 12 mm | n/a | 500 | n/a | n/a | 2500 |

Notes

- (1) Vishay Vitramon uses embossed plastic carrier tape.
- (2) REFERENCE: EIA standard RS 481 - "Taping of Surface Mount Components for Automatic Placement"
- (3) n/a = Not available
- (4) Packaging "C"/"P" and "T"/"R" or lower quantities can depend from product thickness.
- (5) Paper/plastic tape used by availability.

STORAGE AND HANDLING CONDITIONS

- (1) Store the components at 5 °C to +40 °C ambient temperature and ≤ 70 % relative humidity conditions.
- (2) The product is recommended to be used within a time-frame of 2 years after shipment.
Check solderability in case extended shelf life beyond the expiry date is needed.

Precautions:

- a. Do not store products in an environment containing corrosive elements, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. This may cause corrosion or oxidization of the terminations, which can easily lead to poor soldering.
- b. Store products on the shelf and avoid exposure to moisture or dust.
- c. Do not expose products to excessive shock, vibration, direct sunlight and so on.



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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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