



Surface Mount Multilayer Ceramic Chip Capacitor Kits for High Frequency Applications



FEATURES

- Body size 0402, 0603, 0805, 0505, 1111
- 15 pieces of each part
- Ultra-stable dielectric material
- Lead (Pb)-free terminations code “X”
- Reliable Noble Metal Electrode (NME) system
- Made with a combination of design, materials and tight process control to achieve very high field reliability
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS*
Available

**HALOGEN
FREE
GREEN
(5-2008)**
Available

APPLICATIONS

- Broadband wireless communication
- Satellite communication
- WiFi (802.11) and WiMax (802.16)
- VoIP networks and cellular base stations
- Subscriber based wireless devices
- MRI coils and generators
- RF instruments
- Lasers, CATV, UHF / microwave RF power amplifiers
- Filter networks, timing circuits
- Mixers, oscillators impedance matching networks



**0402 and 0603
Available**

See how our QUADs handle the power!

www.vishay.com/videos/capacitorsconnectors/rf-quad-series-mlccs-demo-lower-temperature-vs-competition

| ELECTRICAL SPECIFICATIONS AND DIMENSIONS (refer to the appropriate datasheet) | | |
|---|--------------------|--|
| BODY SIZE | SERIES | DATASHEET |
| 0402 | VJ HIFREQ Series | www.vishay.com/doc?45071 |
| 0603 | | |
| 0805 | | |
| 0505 | QUAD HIFREQ Series | www.vishay.com/doc?45221 |
| 1111 | | |

| ORDERING INFORMATION | | | |
|----------------------|-----------|--------------------------------|--------------------------------|
| PART NUMBER | BODY SIZE | MINIMUM CAPACITANCE VALUE (pF) | MAXIMUM CAPACITANCE VALUE (pF) |
| VJ0402HIFRQ1KIT | 0402 | 1.0 | 82 |
| VJ0402HIFRQ2KIT | | 0.1 | 0.9 |
| VJ0603HIFRQ1KIT | 0603 | 1.0 | 47 |
| VJ0603HIFRQ2KIT | | 56 | 470 |
| VJ0603HIFRQ3KIT | | 0.1 | 0.9 |
| VJ0805HIFRQ1KIT | 0805 | 1.0 | 82 |
| VJ0805HIFRQ2KIT | | 100 | 1500 |
| VJ0505QUARF1KIT | 0505 | 1.0 | 8.2 |
| VJ0505QUARF2KIT | | 10 | 100 |
| VJ1111QUARF1KIT | 1111 | 1.0 | 8.2 |
| VJ1111QUARF2KIT | | 10 | 82 |
| VJ1111QUARF3KIT | | 100 | 1000 |



VJ HIFREQ SERIES DESIGN KITS: 0402 BODY SIZE

| VJ0402HIFRQ1KIT | | |
|------------------|-----------|-------------|
| CAPACITANCE (pF) | TOLERANCE | VOLTAGE (V) |
| 1.0 | ± 0.10 pF | 200 |
| 1.2 | ± 0.10 pF | 200 |
| 1.5 | ± 0.10 pF | 200 |
| 1.8 | ± 0.10 pF | 200 |
| 2.0 | ± 0.10 pF | 200 |
| 3.0 | ± 0.10 pF | 200 |
| 3.3 | ± 0.10 pF | 200 |
| 4.7 | ± 0.25 pF | 200 |
| 5.6 | ± 0.25 pF | 200 |
| 6.8 | ± 0.25 pF | 200 |
| 8.2 | ± 0.25 pF | 200 |
| 12 | ± 5 % | 200 |
| 15 | ± 5 % | 200 |
| 18 | ± 5 % | 200 |
| 20 | ± 5 % | 200 |
| 22 | ± 5 % | 200 |
| 39 | ± 5 % | 50 |
| 47 | ± 5 % | 50 |
| 56 | ± 5 % | 50 |
| 68 | ± 5 % | 25 |
| 82 | ± 5 % | 25 |

| VJ0402HIFRQ2KIT | | |
|------------------|----------------|-------------|
| CAPACITANCE (pF) | TOLERANCE (pF) | VOLTAGE (V) |
| 0.1 | 0.05 | 200 |
| 0.2 | 0.05 | 200 |
| 0.3 | 0.05 | 200 |
| 0.4 | 0.05 | 200 |
| 0.5 | 0.05 | 200 |
| 0.6 | 0.05 | 200 |
| 0.7 | 0.05 | 200 |
| 0.8 | 0.05 | 200 |
| 0.9 | 0.05 | 200 |

QUAD HIFREQ SERIES DESIGN KITS: 0505 BODY SIZE

| VJ0505QUARF1KIT | | |
|------------------|----------------|-------------|
| CAPACITANCE (pF) | TOLERANCE (pF) | VOLTAGE (V) |
| 1.0 | ± 0.10 | 250 |
| 1.2 | ± 0.10 | 250 |
| 1.5 | ± 0.10 | 250 |
| 1.8 | ± 0.10 | 250 |
| 2.0 | ± 0.10 | 250 |
| 2.2 | ± 0.10 | 250 |
| 2.4 | ± 0.10 | 250 |
| 2.7 | ± 0.10 | 250 |
| 3.0 | ± 0.10 | 250 |
| 3.3 | ± 0.10 | 250 |
| 3.9 | ± 0.10 | 250 |
| 4.7 | ± 0.25 | 250 |
| 5.6 | ± 0.25 | 250 |
| 6.8 | ± 0.25 | 250 |
| 8.2 | ± 0.25 | 250 |

| VJ0505QUARF2KIT | | |
|------------------|---------------|-------------|
| CAPACITANCE (pF) | TOLERANCE (%) | VOLTAGE (V) |
| 10 | ± 5 | 250 |
| 12 | ± 5 | 250 |
| 15 | ± 5 | 250 |
| 18 | ± 5 | 250 |
| 20 | ± 5 | 250 |
| 22 | ± 5 | 250 |
| 24 | ± 5 | 250 |
| 27 | ± 5 | 250 |
| 30 | ± 5 | 250 |
| 33 | ± 5 | 250 |
| 39 | ± 5 | 250 |
| 47 | ± 5 | 250 |
| 56 | ± 5 | 250 |
| 68 | ± 5 | 250 |
| 82 | ± 5 | 200 |
| 100 | ± 5 | 200 |



VJ HIFREQ SERIES DESIGN KITS: 0603 BODY SIZE

| VJ0603HIFRQ1KIT | | |
|------------------|-----------|-------------|
| CAPACITANCE (pF) | TOLERANCE | VOLTAGE (V) |
| 1.0 | ± 0.10 pF | 250 |
| 1.2 | ± 0.10 pF | 250 |
| 1.5 | ± 0.10 pF | 250 |
| 1.8 | ± 0.10 pF | 250 |
| 2.0 | ± 0.10 pF | 250 |
| 2.2 | ± 0.10 pF | 250 |
| 2.4 | ± 0.10 pF | 250 |
| 2.7 | ± 0.10 pF | 250 |
| 3.0 | ± 0.10 pF | 250 |
| 3.3 | ± 0.10 pF | 250 |
| 3.9 | ± 0.25 pF | 250 |
| 4.7 | ± 0.25 pF | 250 |
| 5.6 | ± 0.25 pF | 250 |
| 6.8 | ± 0.25 pF | 250 |
| 8.2 | ± 0.25 pF | 250 |
| 10 | ± 5 % | 250 |
| 12 | ± 5 % | 250 |
| 15 | ± 5 % | 250 |
| 18 | ± 5 % | 250 |
| 20 | ± 5 % | 250 |
| 22 | ± 5 % | 250 |
| 27 | ± 5 % | 250 |
| 30 | ± 5 % | 250 |
| 33 | ± 5 % | 250 |
| 39 | ± 5 % | 250 |
| 47 | ± 5 % | 250 |

| VJ0603HIFRQ2KIT | | |
|------------------|---------------|-------------|
| CAPACITANCE (pF) | TOLERANCE (%) | VOLTAGE (V) |
| 56 | ± 5 | 200 |
| 68 | ± 5 | 200 |
| 82 | ± 5 | 200 |
| 100 | ± 5 | 200 |
| 120 | ± 5 | 100 |
| 150 | ± 5 | 100 |
| 180 | ± 5 | 50 |
| 200 | ± 5 | 50 |
| 220 | ± 5 | 50 |
| 270 | ± 5 | 50 |
| 300 | ± 5 | 50 |
| 330 | ± 5 | 50 |
| 390 | ± 5 | 25 |
| 470 | ± 5 | 25 |

| VJ0603HIFRQ3KIT | | |
|------------------|----------------|-------------|
| CAPACITANCE (pF) | TOLERANCE (pF) | VOLTAGE (V) |
| 0.1 | 0.05 | 250 |
| 0.2 | 0.05 | 250 |
| 0.3 | 0.05 | 250 |
| 0.4 | 0.05 | 250 |
| 0.5 | 0.05 | 250 |
| 0.6 | 0.05 | 250 |
| 0.7 | 0.05 | 250 |
| 0.8 | 0.05 | 250 |
| 0.9 | 0.05 | 250 |



VJ HIFREQ SERIES DESIGN KITS: 0805 BODY SIZE

| VJ0805HIFRQ1KIT | | |
|------------------|-----------|-------------|
| CAPACITANCE (pF) | TOLERANCE | VOLTAGE (V) |
| 1.0 | ± 0.10 pF | 250 |
| 1.2 | ± 0.10 pF | 250 |
| 1.5 | ± 0.10 pF | 250 |
| 1.8 | ± 0.10 pF | 250 |
| 2.0 | ± 0.10 pF | 250 |
| 2.2 | ± 0.10 pF | 250 |
| 2.4 | ± 0.10 pF | 250 |
| 2.7 | ± 0.10 pF | 250 |
| 3.0 | ± 0.10 pF | 250 |
| 3.3 | ± 0.10 pF | 250 |
| 3.9 | ± 0.25 pF | 250 |
| 4.7 | ± 0.25 pF | 250 |
| 5.6 | ± 0.25 pF | 250 |
| 6.8 | ± 0.25 pF | 250 |
| 8.2 | ± 0.25 pF | 250 |
| 10 | ± 5 % | 250 |
| 12 | ± 5 % | 250 |
| 15 | ± 5 % | 250 |
| 18 | ± 5 % | 250 |
| 20 | ± 5 % | 250 |
| 22 | ± 5 % | 250 |
| 24 | ± 5 % | 250 |
| 27 | ± 5 % | 250 |
| 30 | ± 5 % | 250 |
| 33 | ± 5 % | 250 |
| 39 | ± 5 % | 250 |
| 47 | ± 5 % | 250 |
| 56 | ± 5 % | 250 |
| 68 | ± 5 % | 250 |
| 82 | ± 5 % | 250 |

| VJ0805HIFRQ2KIT | | |
|------------------|---------------|-------------|
| CAPACITANCE (pF) | TOLERANCE (%) | VOLTAGE (V) |
| 100 | ± 5 | 250 |
| 120 | ± 5 | 250 |
| 150 | ± 5 | 250 |
| 180 | ± 5 | 250 |
| 200 | ± 5 | 250 |
| 220 | ± 5 | 250 |
| 240 | ± 5 | 250 |
| 270 | ± 5 | 250 |
| 300 | ± 5 | 250 |
| 330 | ± 5 | 250 |
| 390 | ± 5 | 200 |
| 470 | ± 5 | 100 |
| 560 | ± 5 | 100 |
| 680 | ± 5 | 100 |
| 820 | ± 5 | 50 |
| 1000 | ± 5 | 50 |
| 1200 | ± 5 | 25 |
| 1500 | ± 5 | 25 |



QUAD HIFREQ SERIES DESIGN KITS: 1111 BODY SIZE

| VJ1111QUARF1KIT | | |
|-------------------------|-----------------------|--------------------|
| CAPACITANCE (pF) | TOLERANCE (pF) | VOLTAGE (V) |
| 1.0 | ± 0.10 | 1500 |
| 1.2 | ± 0.10 | 1500 |
| 1.5 | ± 0.10 | 1500 |
| 1.8 | ± 0.10 | 1500 |
| 2.0 | ± 0.10 | 1500 |
| 2.2 | ± 0.10 | 1500 |
| 2.4 | ± 0.10 | 1500 |
| 2.7 | ± 0.10 | 1500 |
| 3.0 | ± 0.10 | 1500 |
| 3.3 | ± 0.25 | 1500 |
| 3.9 | ± 0.25 | 1500 |
| 4.7 | ± 0.25 | 1500 |
| 5.6 | ± 0.25 | 1500 |
| 6.8 | ± 0.25 | 1500 |
| 8.2 | ± 0.25 | 1500 |

| VJ1111QUARF3KIT | | |
|-------------------------|----------------------|--------------------|
| CAPACITANCE (pF) | TOLERANCE (%) | VOLTAGE (V) |
| 100 | ± 5 | 1500 |
| 120 | ± 5 | 1000 |
| 150 | ± 5 | 1000 |
| 180 | ± 5 | 1000 |
| 200 | ± 5 | 630 |
| 220 | ± 5 | 630 |
| 240 | ± 5 | 630 |
| 270 | ± 5 | 630 |
| 300 | ± 5 | 630 |
| 330 | ± 5 | 630 |
| 390 | ± 5 | 630 |
| 470 | ± 5 | 630 |
| 560 | ± 5 | 300 |
| 680 | ± 5 | 300 |
| 820 | ± 5 | 300 |
| 1000 | ± 5 | 300 |

| VJ1111QUARF2KIT | | |
|-------------------------|----------------------|--------------------|
| CAPACITANCE (pF) | TOLERANCE (%) | VOLTAGE (V) |
| 10 | ± 5 | 1500 |
| 12 | ± 5 | 1500 |
| 15 | ± 5 | 1500 |
| 18 | ± 5 | 1500 |
| 20 | ± 5 | 1500 |
| 22 | ± 5 | 1500 |
| 24 | ± 5 | 1500 |
| 27 | ± 5 | 1500 |
| 30 | ± 5 | 1500 |
| 33 | ± 5 | 1500 |
| 39 | ± 5 | 1500 |
| 47 | ± 5 | 1500 |
| 56 | ± 5 | 1500 |
| 68 | ± 5 | 1500 |
| 82 | ± 5 | 1500 |

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