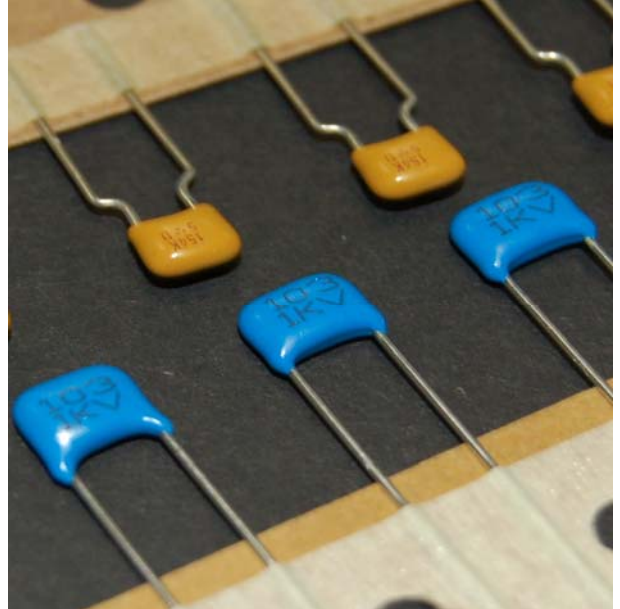


High Voltage Multi-Layer Capacitor (MLC) Radials are designed to meet difficult parameters, such as improved long term reliability and suitability for harsh environments. The DO-style capacitors are conformal coated components that offer enhanced reliability in extreme environments, generally found in military/aerospace applications. The DO-Style Radial MLC Capacitors are ideal for applications such as snubbers in high frequency power converters, high voltage coupling/DC blocking and resonators in SMPS.

High Voltage MLC Radials are suitable solutions for applications that require:

- Enhanced long term reliability
- High dependability for environmental extremes
- High voltage encapsulated capacitor



General Specifications

COG DIELECTRIC MATERIAL

Capacitance Range

10pF to .15 μ F (+25°C, 1.0 \pm 0.2 Vrms at 1kHz, for \leq 1000pF use 1 MHz)

Capacitance Tolerances

\pm 5%; \pm 10%

Operating Temperature Range

-55°C to +125°C

Temperature Characteristics

0 \pm 30ppm/°C

Voltage Ratings

100 VDC thru 3000 VDC

Dissipation Factor

0.15% max, (+25°C, 1.0 \pm 0.2 Vrms at 1kHz, for \leq 100pF use 1 MHz)

Insulation Resistance (+25°C, at 500V)

100K M Ω min. or 100 M Ω - μ F min, whichever is less

Dielectric Strength

120% rated voltage, 5 seconds

Life Test

100% rated and +125°C

X7R DIELECTRIC MATERIAL

Capacitance Range

1000pF to 22 μ F (+25°C, 1.0 \pm 0.2 Vrms at 1kHz)

Capacitance Tolerances

\pm 5%; \pm 10%; \pm 20%

Operating Temperature Range

-55°C to +125°C

Temperature Characteristics

\pm 15% (0 VDC)

Voltage Ratings

50 VDC thru 3000 VDC

Dissipation Factor

2.5% max, (+25°C, 1.0 \pm 0.2 Vrms at 1kHz)

Insulation Resistance (+25°C, at 500V)

100K M Ω min. or 1000 M Ω - μ F min, whichever is less

Insulation Resistance (+125°C, at 500V)

10K M Ω min. or 100 M Ω - μ F min, whichever is less

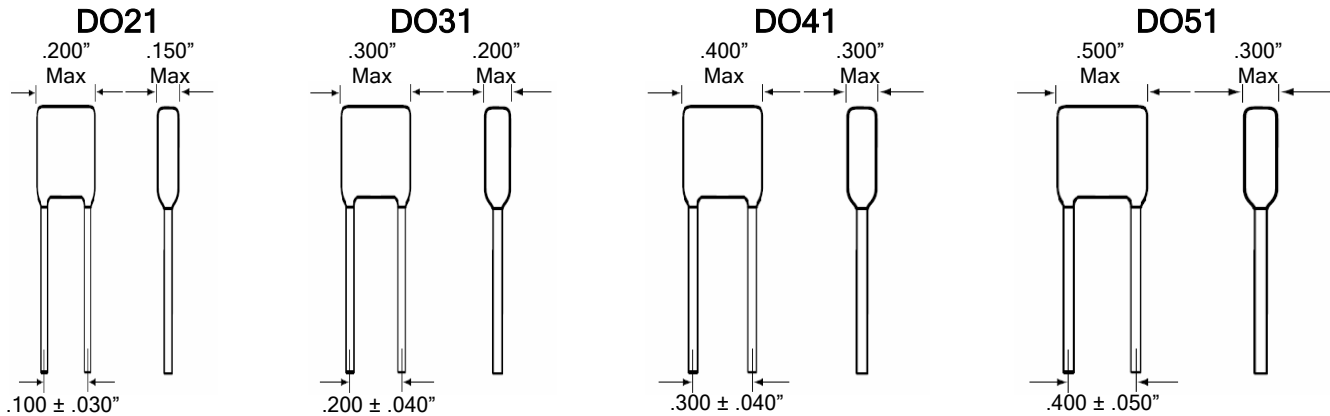
Dielectric Strength

120% rated voltage, 5 seconds

Life Test

100% rated and +125°C

Dimensional Diagram



****For other Sizes and Working Voltages, please contact the Factory****

Working Voltages

Physical Size	Dielectric Code	Working Voltages (50 to 2000 VDC)
21	C0G	10pF to 4700pF
	X7R	1000pF to 2.2μF
31	C0G	10pF to 10000pF
	X7R	1000pF to 10μF
41	C0G	100pF to 33000pF
	X7R	1000pF to 22μF
51	C0G	1000pF to 33000pF
	X7R	1000pF to 22μF

ORDERING INFORMATION

Style	Case Size	Dielectric	Capacitance	Tolerance	Voltage	Termination	Marking
DO	41	X	473	M	201	RS	MV
DO Skinny Dip Radial Series	21 31 41 51	X = X7R G = C0G	First 2 digits are Significant; Third digit indicates number of Zeros Examples: 201 = 200pF 2R2 = 2.2pF	C0G: J ±5% K ±10% X7R: J ±5% K ±10% M ±20%	First 2 digits are Significant; Third digit indicates number of Zeros Examples: 201 = 200V 151 = 150V 202 = 2000V	RS Solder Plated RSN Tin over Nickel Plated (RoHS Compliant)	MV = Capacitance and Voltage M = Capacitance Only