

High Q Capacitors, High Power RF - Surface Mount & Ribbon Leaded

A range of ultra-low loss High Q ceramic capacitors with COG/NP0 characteristics suitable for high power applications where minimal power loss and very low self heating is demanded.

Capacitance values

1pF to 27nF (High Q)

Chip sizes

2225 and 4040

Operating temperature

-55°C to +125°C

High Q low ESR dielectrics

(other options available)

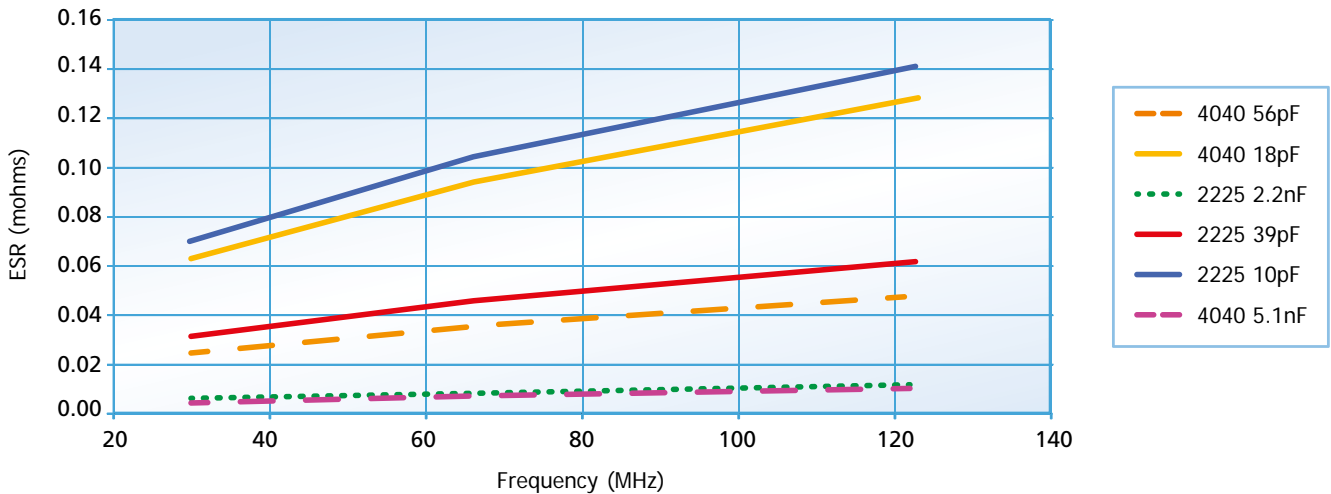
Insulation Resistance (IR)

100GΩ min @ 100 Vdc or 1000s (whichever is the less)

DWV up to 8400Vdc



Typical ESR vs Frequency



ESR Measurement

All ESR figures are measured using a VNA and 2m copper resonant tube and extrapolating to 30MHz by ratio. Measured data can be supplied on request. Measurement of ESR can vary with test method and components should only be compared when tested back-to-back on the same equipment under controlled conditions.

High Power RF capacitors - minimum/maximum capacitance values

Chip size	Case size 25 - 2225		Case size 40 - 4040	
	Min.	Max.	Min.	Max.
200V	6.2nF	10nF	16nF	27nF
500V	5.1nF	5.6nF	13nF	15nF
630V	3.9nF	4.7nF	12nF	12nF
1kV	1.2nF	3.3nF	5.6nF	10nF
2kV	510pF	1.0nF	1.6nF	5.1nF
3kV	1pF	47pF* / 470pF	910pF	1.5nF
4kV	-	-	620pF	820pF
5kV	-	-	390pF	560pF
6kV	-	-	160pF	330pF
7.0kV/7.2kV	-	-	1pF	56pF** / 150pF

Note: *2225 - 47pF max. for dual rated @2.5kVac 30MHz **4040 - 56pF max. for dual rated @5kVac 30MHz.