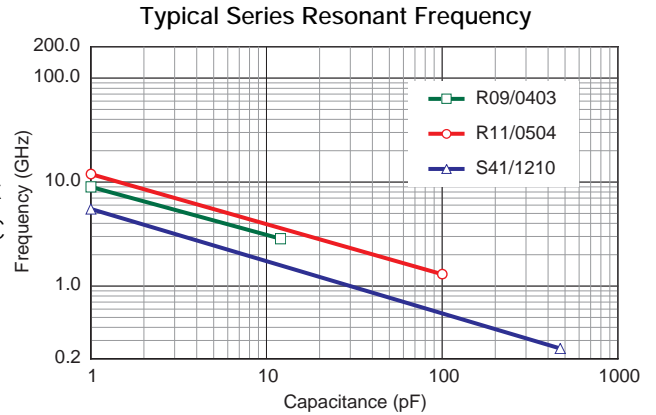




## DIELECTRIC CHARACTERISTICS

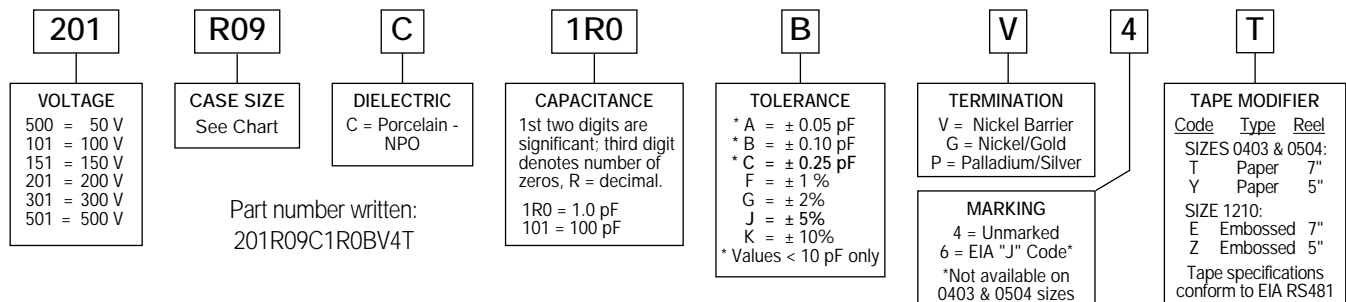
TEMPERATURE COEFFICIENT:	0 ± 30ppm /°C, -55 to 125°C
QUALITY FACTOR:	2,500 min., 10,000 typical
INSULATION RESISTANCE:	>1,000 GΩ @ 25°C, WVDC; 125°C IR is 10% of 25°C rating.
DIELECTRIC STRENGTH:	2.5 X WVDC Min., 25°C, 50 mA max
TEST PARAMETERS:	1MHz ±50kHz, 1.0±0.2 VRMS, 25°C
AVAILABLE CAPACITANCE:	Size 0403: 0.2 - 15 pF Size 0504: 0.2 - 100 pF Size 1210: 0.5 - 1000 pF



## MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

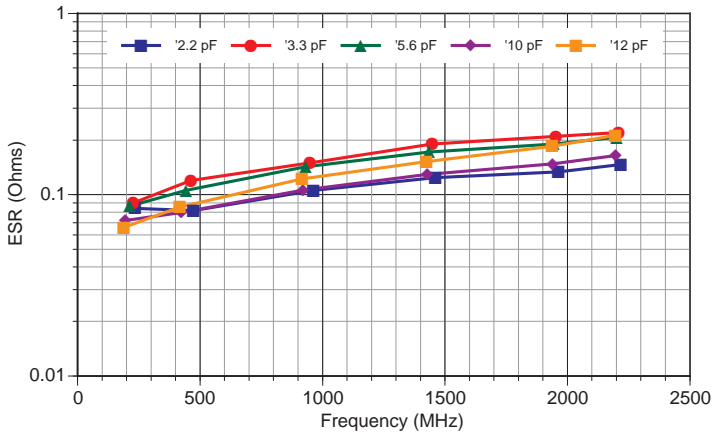
	SPECIFICATION	TEST PARAMETERS
SOLDERABILITY:	Solder coverage ≥ 90% of metalized areas	Preheat chip to 120° - 150°C for 60 sec. Dip terminals in rosin flux then dip in 62Sn/36Pb/2Ag solder @ 240±5°C Dip time = 5±1 sec.
RESISTANCE TO SOLDERING HEAT:	Chip should not crack. Solder coverage ≥ 80%	Preheat chip to 120° - 150°C for 60 sec. Dip terminals in rosin flux then dip in 62Sn/36Pb/2Ag solder @ 260±5°C Dip time = 10±1 sec.
TERMINAL ADHESION:	Termination should not pull off. Ceramic should remain undamaged.	Linear pull force exerted on axial leads soldered to each terminal. Terminal strength: For 0403: ≥2.0Lbs. For 0504: ≥2.0Lbs. For 1210: ≥6.0Lbs.
PCB DEFLECTION:	No mechanical damage. Cap. change: 2% or .5pF Max	Glass Epoxy PCB: 1 mm deflection
LIFE TEST:	Cap. change: 2% or .5pF Max I.R. = Initial value	1000 Hours, 125°C, 200% rated voltage
THERMAL SHOCK:	Cap. change: 2% or .5pF Max I.R. = 70% of initial value	5 CYCLES: 30±3 minutes @ -55°C, 3 min. @ 25°C 30±3 min. @ +125°C, 3 min. @ 25°C
MOISTURE RESISTANCE:	Cap. change: 2% or .5pF Max I.R. = 70% of initial value	240 Hours, 85% Relative Humidity, 85°C, 1.5 VDC

## HOW TO ORDER

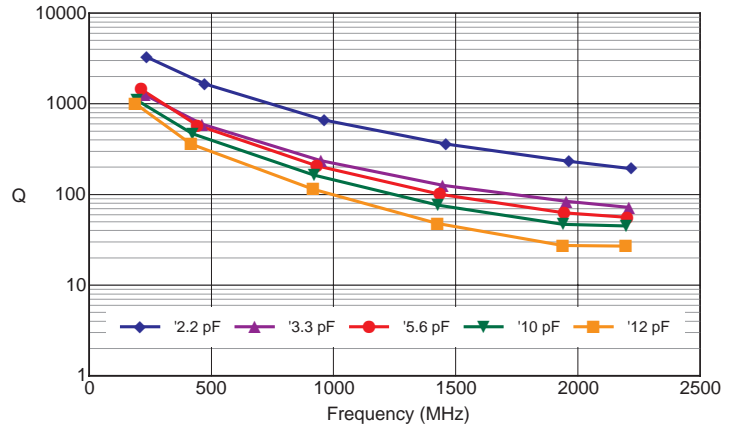


# RF CHARACTERISTICS VERSUS FREQUENCY

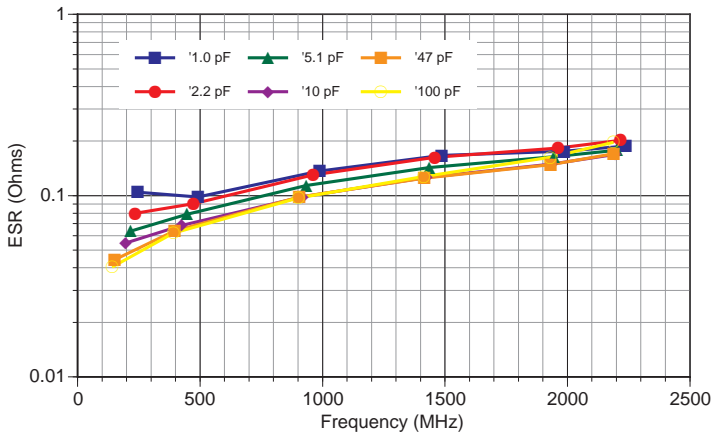
Equivalent Series Resistance: 0403/R09C



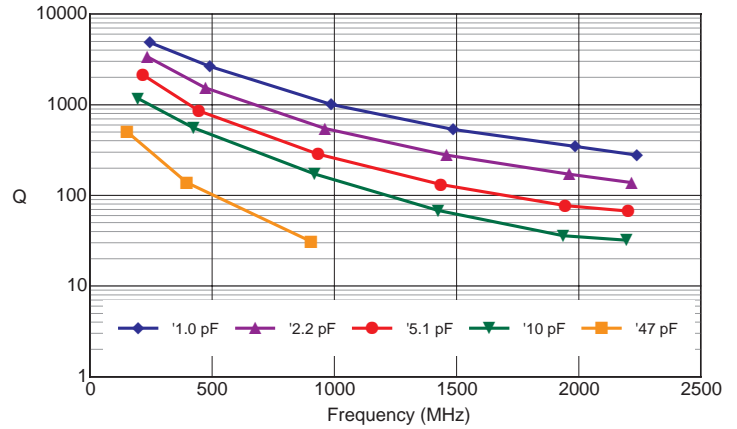
Q Factor: 0403/R09C



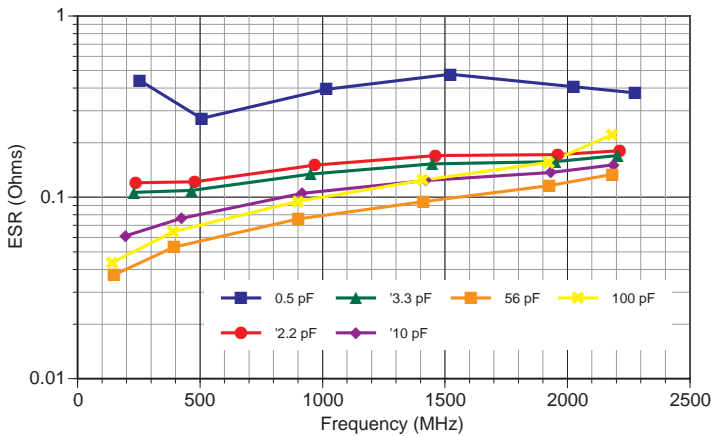
Equivalent Series Resistance: 0504/R11C



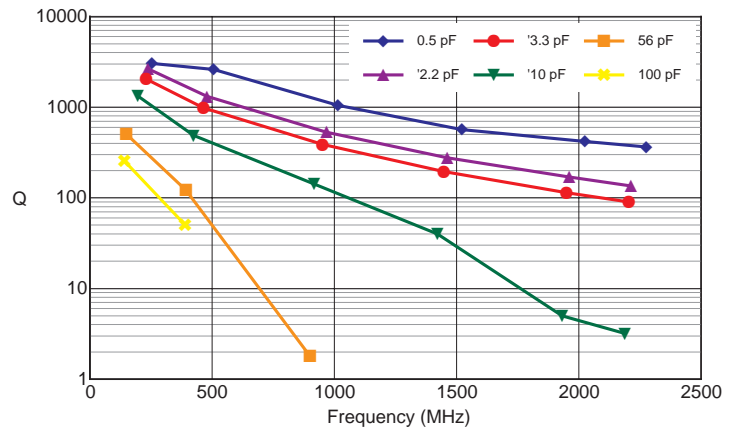
Q Factor: 0504/R11C



Equivalent Series Resistance: 1210/S41C



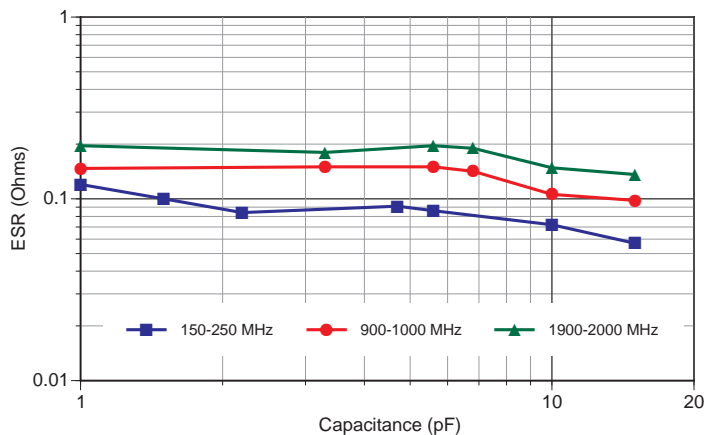
Q Factor: 1210/S41C



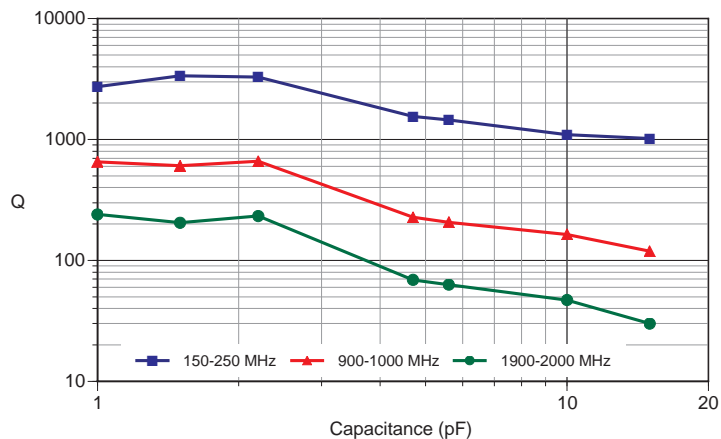
Measurements performed on a Boonton 34A Resonant Coaxial Line and represent typical capacitor performance.

# RF CHARACTERISTICS VERSUS CAPACITANCE

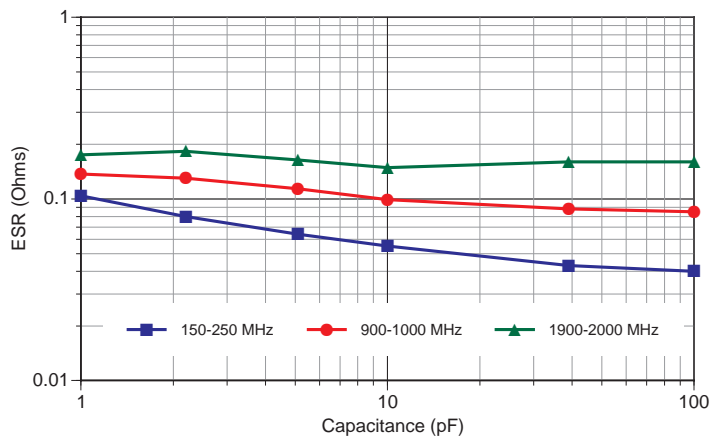
Equivalent Series Resistance: 0403/R09C



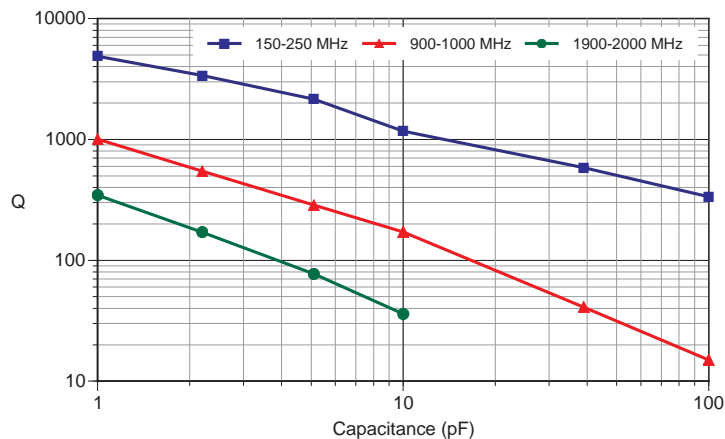
Q Factor: 0403/R09C



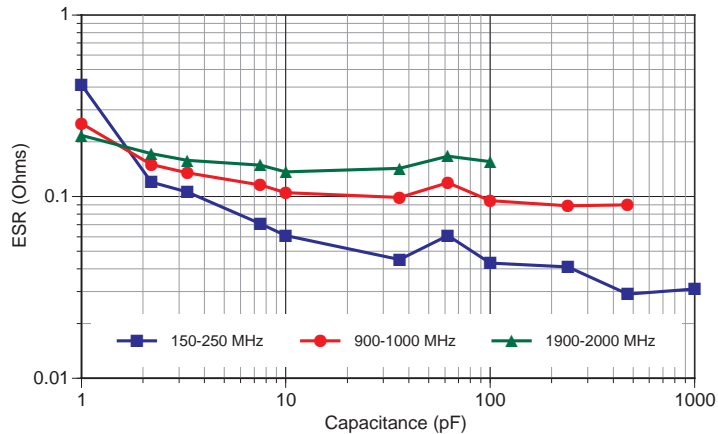
Equivalent Series Resistance: 0504/R11C



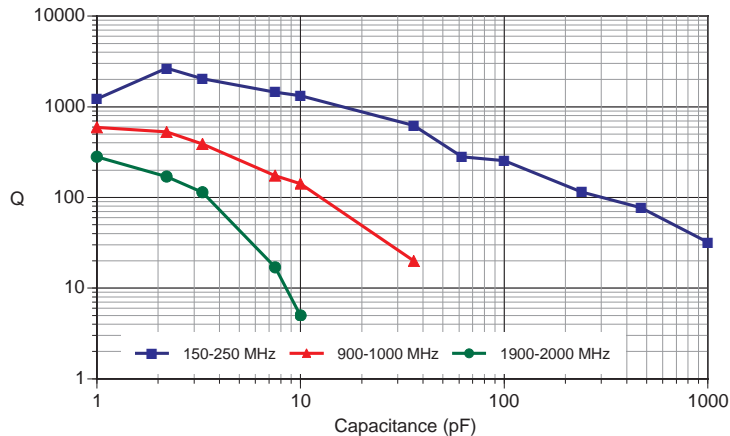
Q Factor: 0504/R11C



Equivalent Series Resistance: 1210/S41C



Q Factor: 1210/S41C



Measurements performed on a Boonton 34A Resonant Coaxial Line and represent typical capacitor performance.