



≠ Product Features

- High Q
- High Power
- Low ESR/ESL
- Low Noise
- High Self-Resonance
- Ultra Stable Performance
- Capacitance Range:
4700pF to 100nF

≠ Product Applications

Typical Functional Applications:

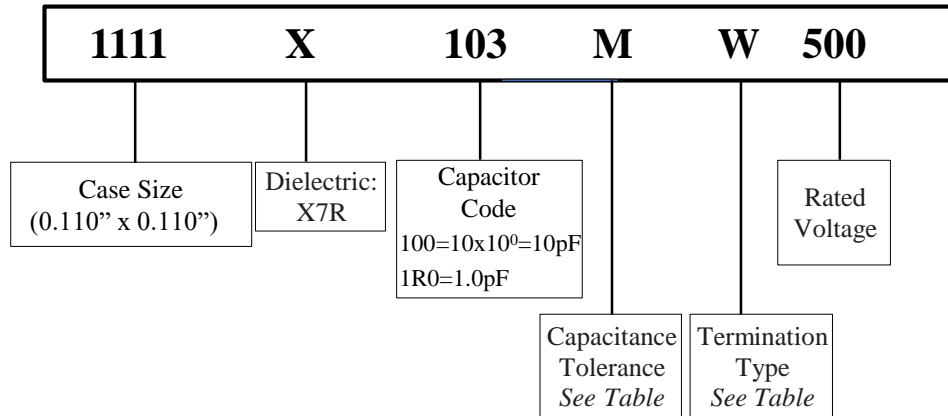
- Tuning • Bypass • Coupling
- Feedback • D.C. Blocking
- Impedance Matching

Typical Circuit Applications:

- UHF/Microwave RF Power Amplifiers
- Mixers • Oscillators • Filter Networks
- Low Noise Amplifiers • Timing Circuits and Delay Lines



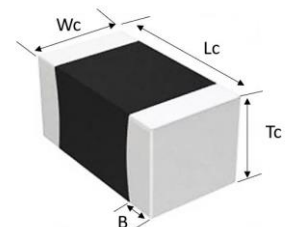
≠ Part Numbering



≠ Capacitor Dimensions

Unit: inch (millimeter)

Length	Width	Thickness	Overlap
Lc	Wc	Tc	B
0.110+0.025~ -.010 (2.79+0.64~ -.25)	0.110 ± 0.015 (2.79 ± 0.38)	0.102 (2.59 max)	0.020 ± 0.010 (0.508 ± 0.250)





≠ 1111X Capacitance Values

Cap. pF	Code	Tol.	Rated WVDC	Cap. pF	Code	Tol.	Rated WVDC	Cap. pF	Code	Tol.	Rated WVDC
4700	472	K,M	50V Code 500	15000	153	K,M	50V Code 500	47000	473	K,M	50V Code 500
5600	562			18000	183			50000	503		
6800	682			22000	223			56000	563		
8200	822			27000	273			68000	683		
10000	103			33000	333			82000	823		
12000	123			39000	393			100000	104		

Special capacitances, tolerances and WVDC are available. Please contact PPI.

≠ Capacitance Tolerance Codes

Code	K	M
Tol.	±10%	±20%

≠ Termination Types

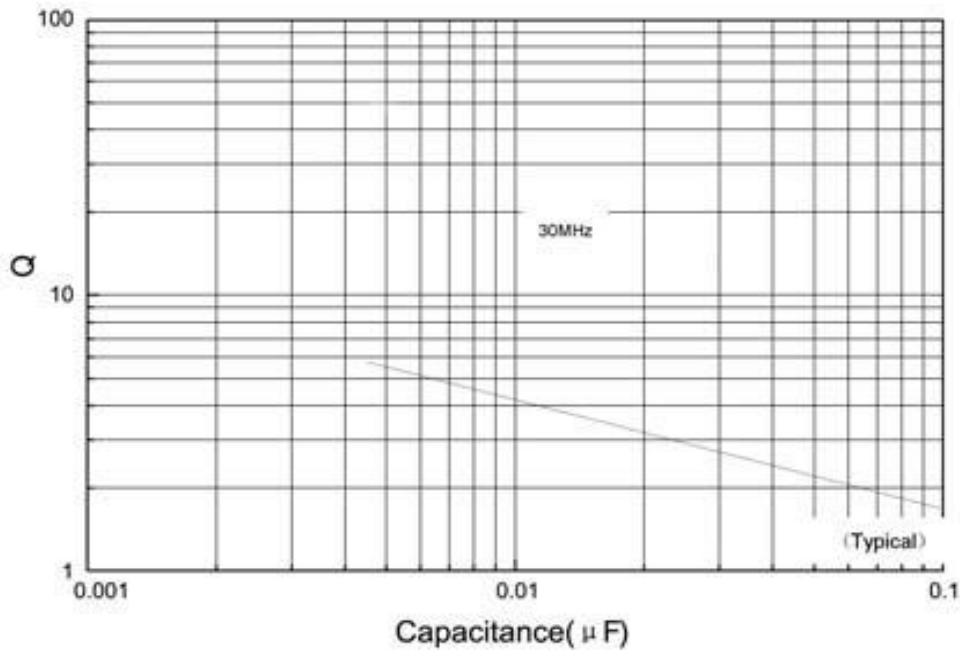
Termination Code	Plated Material	
W	Sn/Ni	
L	90% Sn10%Pb	
P (Non-Magnetic)	Sn/ Cu	
C	Ag/Pb	
G	Au/Ni	

Note: "Non-Magnetic" means no magnetic materials.

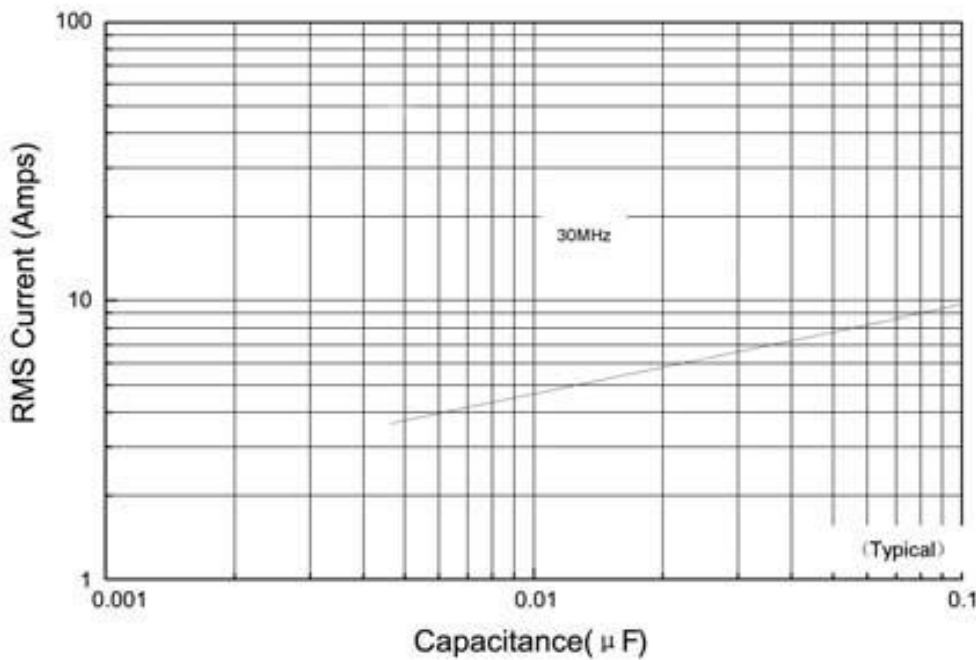
≠ Electrical Specifications

Operating Temperature Range	-55°C to +125°C
Insulation Resistance (IR)	Insulation Resistance @ +25°C > 1000ΩF Insulation Resistance @ +125°C > 100ΩF
Temperature Voltage Coefficient	+15/-25% ΔC (-55°C to +125°C)
Dielectric Withstanding Voltage (DWV)	2.5x WVDC, 5 seconds
Max Dissipation Factor	0.025 (2.5%) max
Test Parameters	1kHz, 1.0 VRMS, 25°C

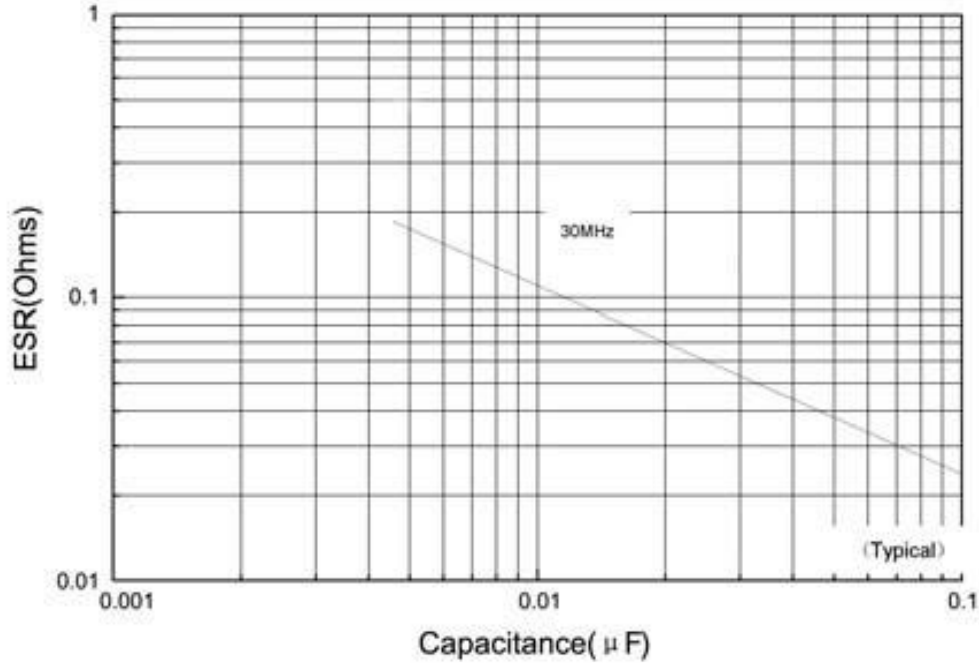
Q vs. Frequency



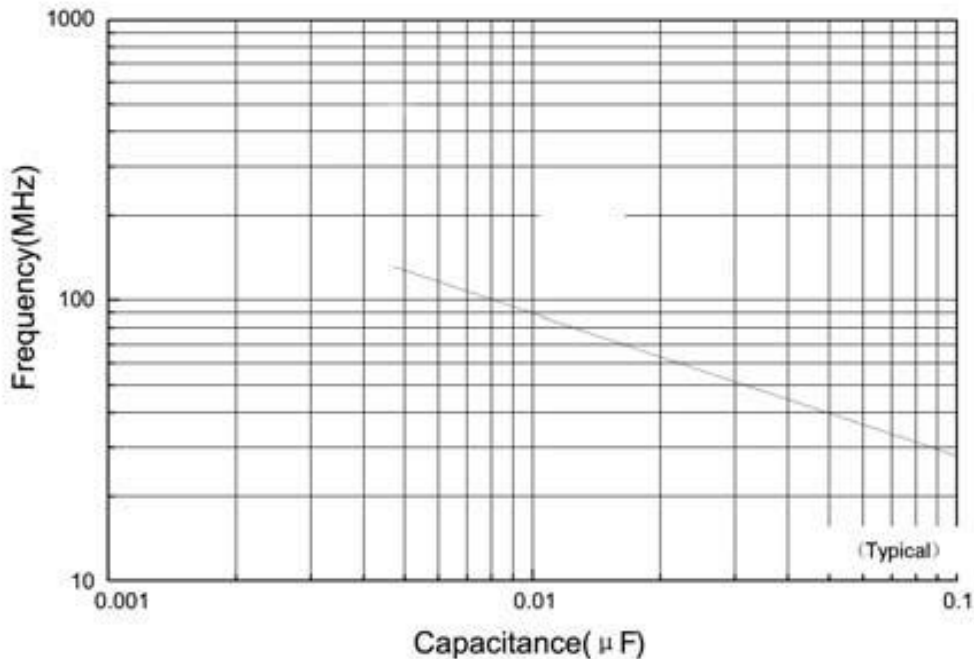
Current Rating vs. Capacitance



⚡ ESR vs Capacitance

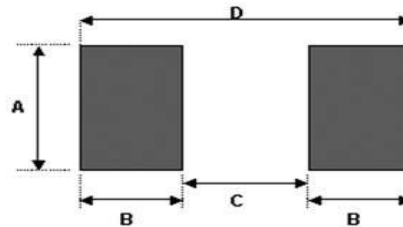


⚡ Series Resonance vs. Capacitance



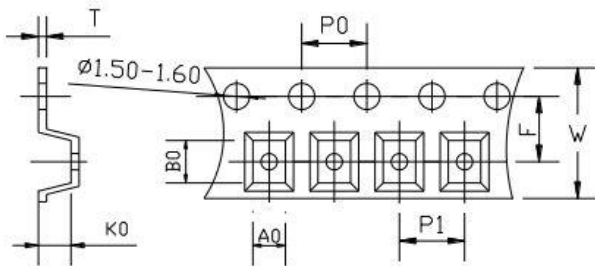
≠ Mounting Pad Recommendations

Orientation	A Min	B Min	C Min	D Min
Vertical	0.120"	0.050"	0.075"	0.175"
Horizontal	0.130"	0.050"	0.075"	0.175"

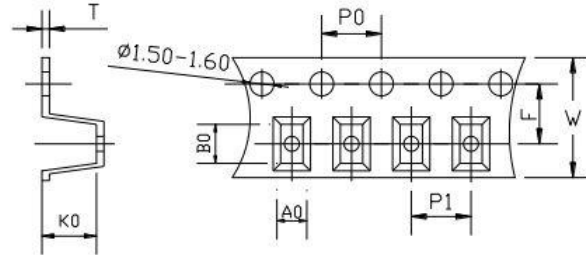


≠ Tape & Reel Specifications (mm)

Horizontal Orientation



Vertical Orientation



Orientation	W	P0	P1	T	F	Qty Min	Qty/reel	Tape Material
Horizontal	8.00	4.00	4.00	0.22	3.50	500	3000	Plastic
Vertical	12.00	4.00	4.00	0.30	5.50	300	2000	Plastic

A₀ B₀ K₀

- Determined by component size. Typical clearance between the cavity and the component is:
.05 (.002) min to .50 (.020) max for 8mm tape and .50 (.002) min to .65 (.026) max for 12mm tape.
- The component cannot rotate more than 20° within the determined cavity.