



≠ 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:

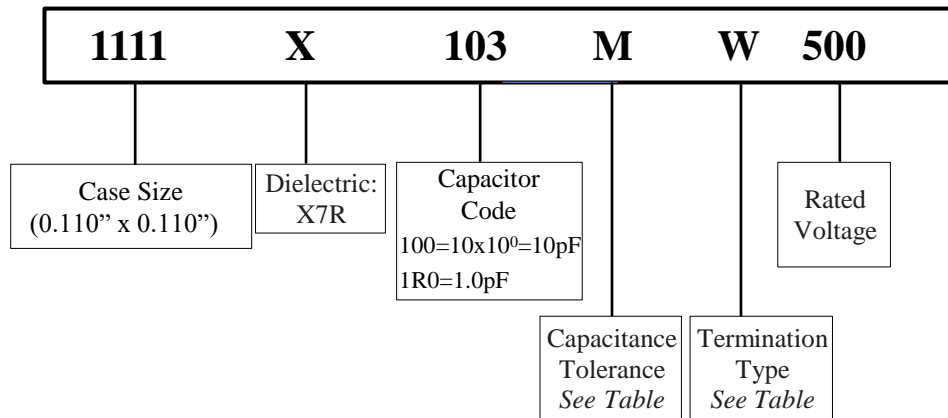
- Tuning • Bypass • Coupling
- Feedback • D.C. Blocking
- Impedance Matching

Typical Circuit Applications:

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



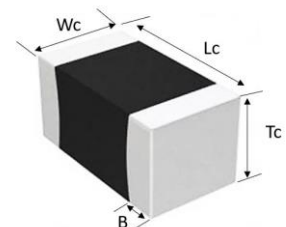
≠ Part Numbering



≠ 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			15000	153			47000	473		
5600	562		50V	18000	183		50V	50000	503		50V
6800	682	K,M	Code	22000	223	K,M	Code	56000	563	K,M	Code
8200	822		500	27000	273		500	68000	683		500
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	

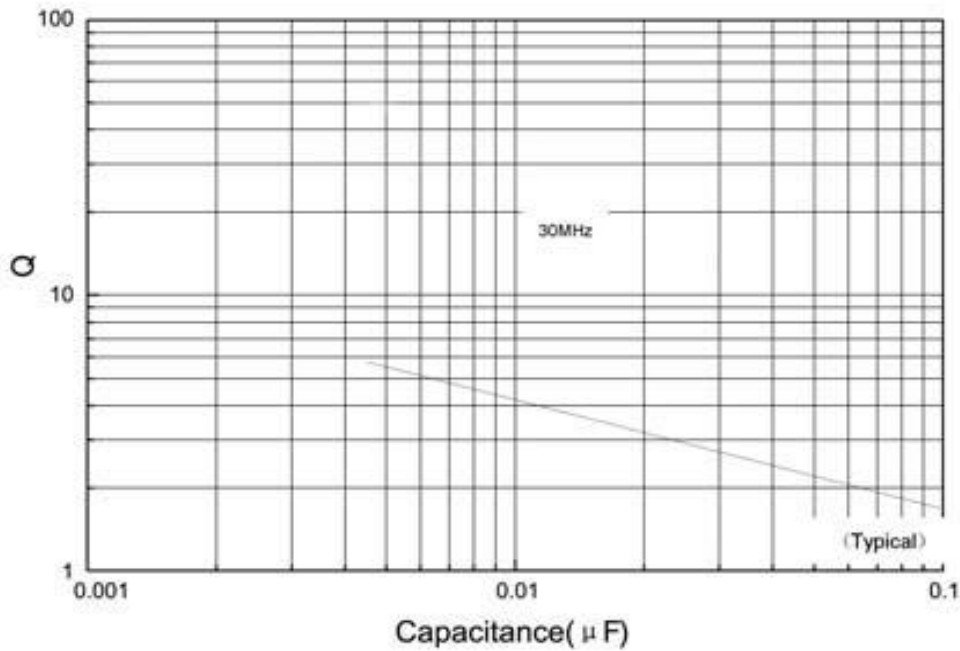
Note: "Non-Magnetic" means no magnetic materials.

≠ Electrical Specifications

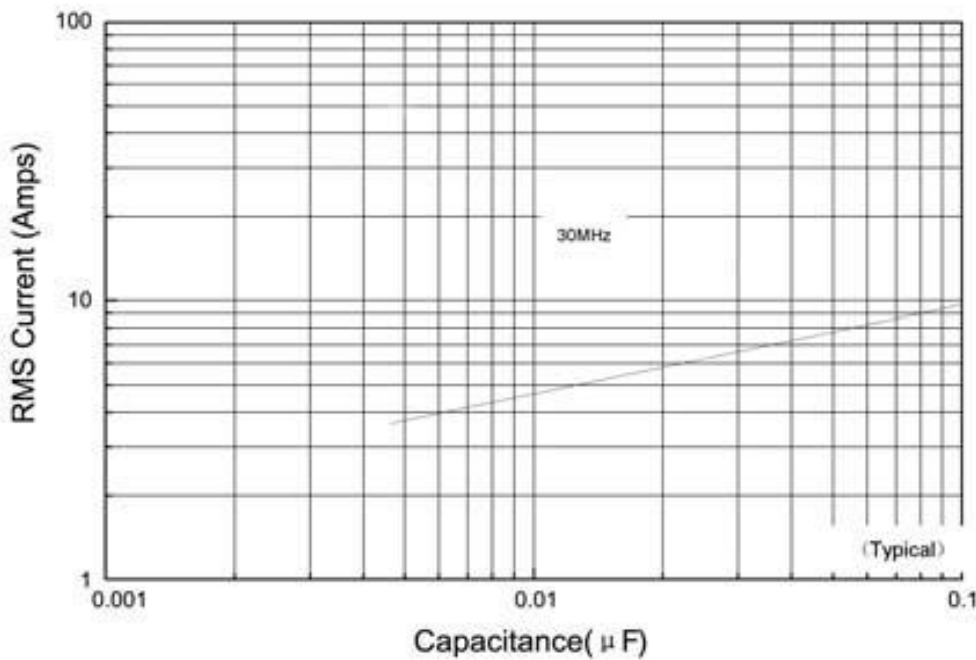
Operating Temperature Range	-55°C to +125°C
Insulation Resistance (IR)	Insulation Resistance @ +25°C > 1000ΩF Insulation Resistance @ +125°C > 100ΩF
Temperature Voltage Coefficient	+15/-25% ΔC (-55°C to +125°C)
Dielectric Withstanding Voltage (DWV)	2.5x WVDC, 5 seconds
Max Dissipation Factor	0.025 (2.5%)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



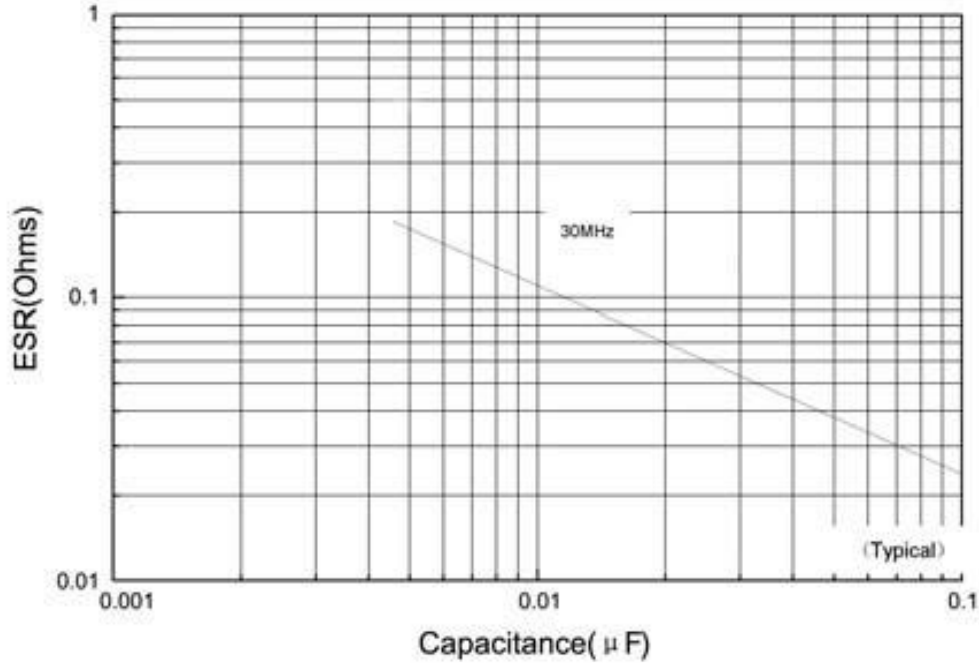
Q vs. Frequency



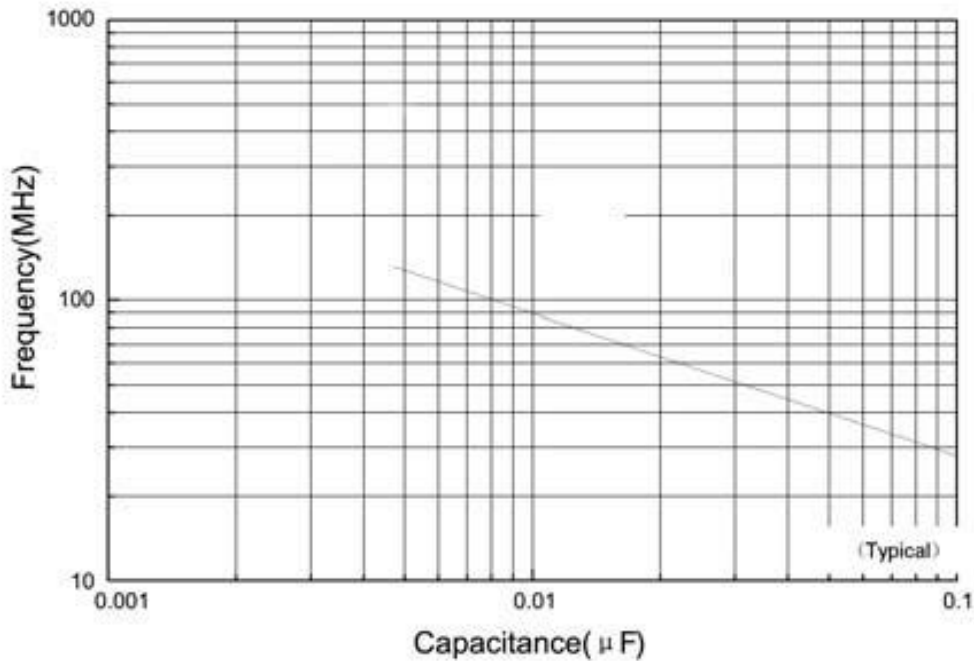
Current Rating vs. Capacitance



≠ ESR vs Capacitance

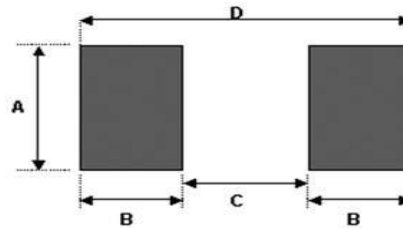


≠ Series Resonance vs. Capacitance



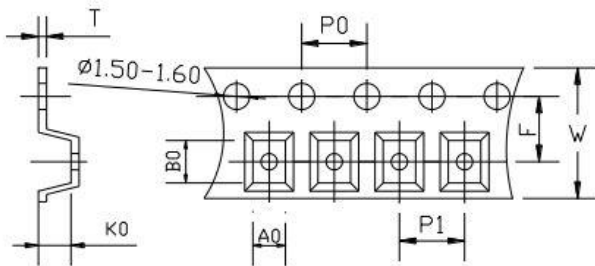
≠ Mounting Pad Recommendations

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



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

A_0 B_0 K_0

- 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.