

# DATASHEET Part No. Ultra-Low ESR, High Q, ACQ02X / A60L series

## COG/NPO Microwave Capacitor

(Preliminary)

### 4. Specifications

### **EIA0402**

Electrical Specifications	
Capacitance	0.1 to 27pF
Tolerances	Refer to Cap Value list
Working Voltage (WVDC)	200V
Quality Factor (Q)	2000 min. @ 1MHz
Temperature Range	-55 °C to + 125 °C (no derating of working voltage)
Temperature coefficient of Capacitances (TCC)	0± 30 ppm/°C, -55°C to + 125°C
Insulation Resistance	10 <sup>5</sup> MΩ min. at + 25°C at rated WVDC
	$10^4~M\Omega~$ min. at + $125^{\circ}$ C at rated WVDC
Dielectric Withstanding Voltage (DWV)	2.5 x WVDC for 5 seconds
Aging	None
Piezo Effects	None

Mechanical Specifications	
Terminations	Terminations: T = Tin Plated over Nickel Barrier* (Standard) TN = Tin Plated over Non-Magnetics Barrier* W = Tin/Lead Solder Plated over Nickel Barrier
Solderability	Solder coverage > 90% of end termination
Terminal Strength	2 lbs. Typ., 1 lbs, min. (0.9kg typ. 0.45kg min.)

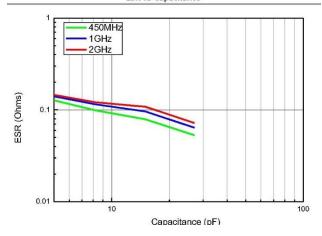
Environmental Specifications	
Life Test	2000 hours, +125°C at 2 X WVDC
Thermal Shock	5 cycles, -55°C to +125°C
Moisture Resistance	MIL-STD-202, Method 106

Contact Theta-j Associates for additional samples, kits and Quotes:

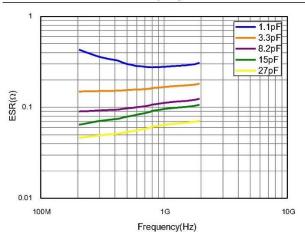
Gary Bisanz Ph: 847-651-9334 E/M: gary@theta-j.com



#### **ESR** vs Capacitance



**ESR** vs Frequency



Q vs Capacitance

