

	DATASHEET	Part No.
	Ultra-Low ESR, High Q, C0G/NPO Microwave Capacitor	ACQ03X / A60S series (Preliminary)

EIA0603

4. Specifications

Electrical Specifications	
Capacitance	0.1 to 100pF
Tolerances	Refer to Cap Value list
Working Voltage (WVDC)	250V
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 ⁵ MΩ min. at + 25°C at rated WVDC 10 ⁴ MΩ min. at + 125°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	4 lbs. Typ., 2 lbs. min. (1.8kg typ. 0.9kg 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

