

**C0G/NPO Microwave Capacitor** 

ACQ05X / A60F series

(Preliminary)

## **EIA0805**

Part No.

## 4. Specifications

| Electrical Specifications                     |   |
|---|---|
| Capacitance                                   | 0.1 to 240pF  |
| 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                         | $10^5~M\Omega~$ min. at + 25°C at rated WVDC        |
|   | $10^4~M\Omega$ min. at + 125°C at rated WVDC        |
| Dielectric Withstanding Voltage (DWV)         | 2.5 x WVDC for 5 seconds                            |
| Aging   | None  |
| Piezo Effects                                 | None  |

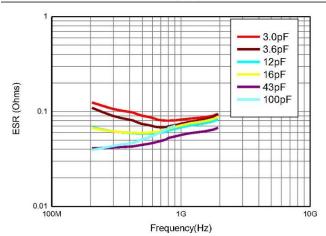
| Mechanical Specifications |   |
|---------------------------|---|
| Terminations              | Terminations : T = Tin Plated over Nickel Barrier*<br>(Standard)<br>TN = Tin Plated over Non-Magnetics Barrier*<br>W = Tin/Lead Solder Plated over Nickel Barrier |
| Solderability             | Solder coverage > 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℃ to +125℃        |
| Moisture Resistance          | MIL-STD-202, Method 106        |

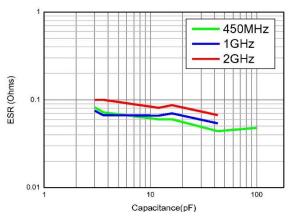
Contact Theta-j Associates for additional samples, kits and Quotes:

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

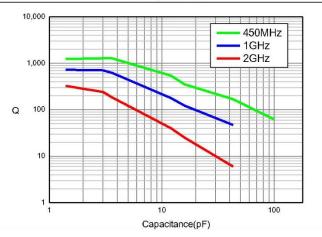








Q vs Capacitance



## ESR vs Frequency