

### Features

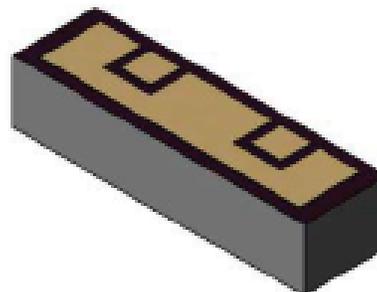
- High Reliability Silicon Nitride-Oxide Dielectric
- Low Loss
- Long Term Reliability and Stability
- RoHS\* Compliant

### Description

The 906R5K-SP03 binary capacitor is designed to facilitate bread-boarding or to use where a trimming capability is required. These devices feature the same dielectric layer and bonding surfaces as our 9000 and 9100 series chip capacitors. By connecting the pads in parallel the capacitance values are additive, so many combinations are possible.

These devices are ideally suited for use in applications requiring a trimming capability or bread-boarding.

### Die



### Electrical Specifications: $T_C = +25^\circ\text{C}$ (unless otherwise specified)

Part #	Reverse Breakdown	Capacitance					
	$V_B$ $I_R = 10 \mu\text{A}$	$C_J$ $V_R = 0 \text{ V}$					
	V	pF					
	Min.	Min.	Max.	Min.	Max.	Min.	Max.
906R5K-SP03	50	5.85	7.15	0.06	0.12	0.06	0.12

### Absolute Maximum Ratings<sup>5,6</sup>

Parameter	Absolute Maximum
Moisture Sensitivity Level	1
Operating Temperature	-55°C to +150°C
Storage Temperature	-65°C to +200°C

5. Exceeding any one or combination of these limits may cause permanent damage to this device.
6. MACOM does not recommend sustained operation near these survivability limits.

### Handling Procedures

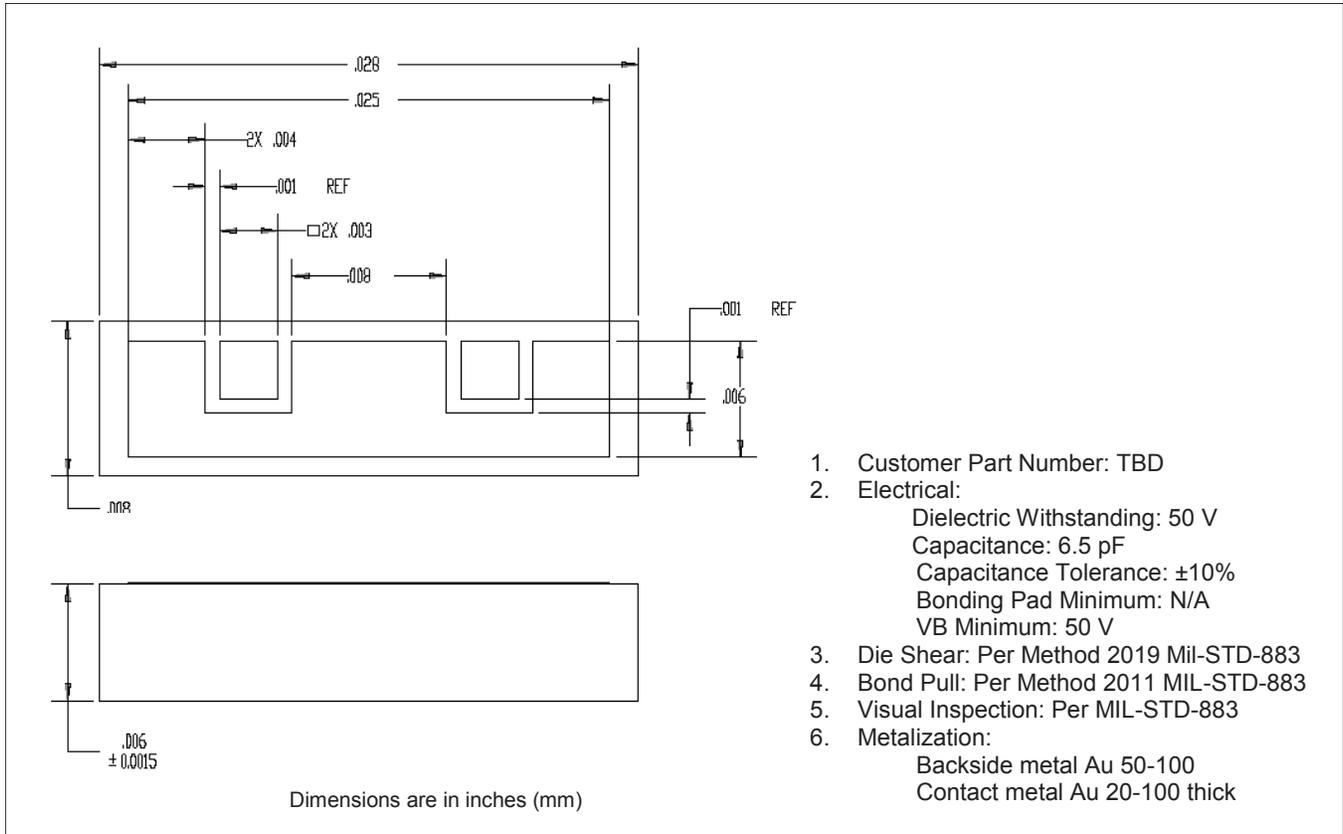
Please observe the following precautions to avoid damage:

### Static Sensitivity

These electronic devices are sensitive to electrostatic discharge (ESD) and can be damaged by static electricity. Proper ESD control techniques should be used when handling these Class 0 (HBM) devices.

\* Restrictions on Hazardous Substances, European Union Directive 2011/65/EU.

### Die



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