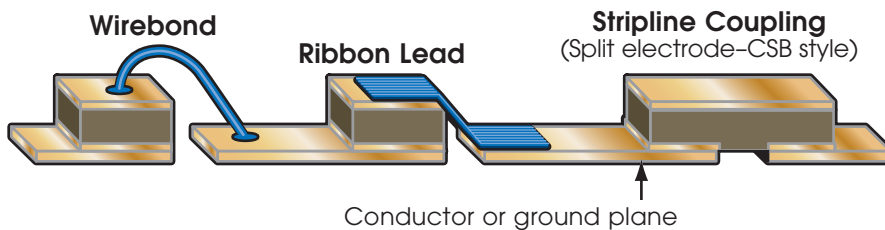


# Series Resonant Frequency

The inherent series resonant frequency (SRF) of a single layer chip capacitor is the highest of any discrete lumped constant capacitor. Since connections must be made to the chip, the resultant SRF is lowered and mainly determined by the inductance of the connections (wire or ribbon), the size of the chip, and the location of the connections. As a result of these variables, among others, the best feasible determination of usability is *in situ*. Please visit our website for additional information, including our new capacitor design tool, CompexCAD. CompexCAD offers series, shunt, and Smith chart simulations, as well as SPICE parameters for our edge-to-edge, margin, and dual-pad capacitors.

**NEW COMPEX CAPACITOR DESIGNER –  
CompexCAD  
AT WWW.COMPEXCORP.COM**

## Common Configurations



## Common Mounting Methods

- Soldering with the use of pre-tinning and solder reflow, solder preforms, solder paste, etc.
- Eutectic bonding with appropriate metallizations of the surfaces to be joined and the use of compatible interface preforms
- Conductive Epoxy

## Common Termination Methods

- Soldering of wire or ribbon leads (minimum chip size limited by user's soldering techniques)
- Thermal compression, thermasonic, or ultrasonic bonding with gold wire

## Capacitor General Electrical Characteristics

**Operating Frequency:**  
Up to 100 GHz

**Voltage Rating:**

Material	Thickness	WVDC
C-20 through C-140 <sup>1</sup>	≤5 mils	50
	>5 mils	100
C-200 and C-400 <sup>2</sup>	5-10 mils	16-100

1. Ratings up to 1,000V and higher available, consult factory
2. Our Ultra-High K X7R material can be rated between 16 and 100WVDC depending on the component thickness and the requirements of your application. Please consult the factory to determine the optimum solution.

**Dielectric Test Voltage:**

250% voltage rating, impervious to static discharge

**Test Frequency:**

1 MHz @ 1V (below 1,000pF)  
1 KHz @ 1V (above 1,000pF)

## Applications:

- Microwave Integrated Components
- GaAs Integrated Circuits
- DC Blocking
- RF Bypass
- Decoupling
- Temperature Compensation Circuits
- LC Filter
- Tuning

- **LEAD TIMES IN DAYS, NOT WEEKS**
- **BUILT TO YOUR EXACT SPECIFICATIONS**