

### Capacitors: Mounting Capacitors

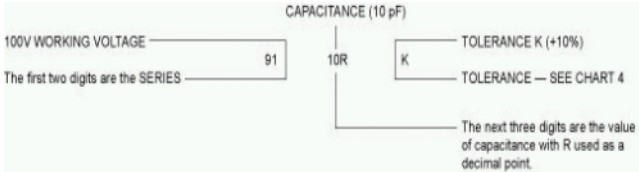


The Aeroflex / Metelics MMI-9000 and 9100 Series Chip Capacitors feature high stand-off voltage and low dielectric loss due to our use of nitride/oxide dielectric layers. Gold bonding surfaces, top and bottom provide ease of bonding and minimum contact resistance. MIS capacitors have high insulation resistance, low dissipation factor, and low temperature coefficient, which are features that produce devices with excellent long term stability.

- High Reliability Silicon, Nitride/Oxide Dielectric
- Low Loss and High Q
- Long Term Reliability and Stability
- Gold Metallization Front and Back

#### HOW TO ORDER:

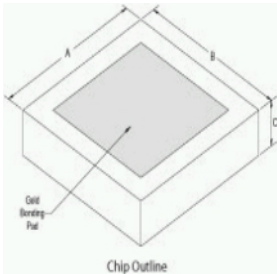
- [Go to Table 1:](#) 9100 Series > 100 Volt Working Voltage.  
Select capacitance range required.
- Check CHIP size for compatibility with your circuit.
- [Go to Table 2:](#) 9000 Series > 50 Volt Working Voltage  
For smaller chip size with lower working voltage.
- [Go to Table 3:](#) Beam Lead products. Specify part number.



#### EXAMPLES:

9110RK = > 100 WVDC 10 pF + 10% with a .020" CHIP SIZE.

902R0J = > 50 WVDC 2.0 pF + 5% with a .010" CHIP SIZE



### Available Capacitors: Mounting Capacitors

| Table 1: 9100 Series Capacitors Working Voltage > 100V |                         |                                            |
|--------------------------------------------------------|-------------------------|--------------------------------------------|
| Model                                                  | Capacitance Range<br>pF | Chip Size + .002"<br>Dim A x Dim B x Dim C |
| <a href="#">910R1 thru 911R9</a>                       | 0.1 to 1.9              | .010" x .010" x .005"                      |
| <a href="#">912R0 thru 919R9</a>                       | 2.0 to 9.9              | .015" x .015" x .005"                      |
| <a href="#">9110R thru 9129R</a>                       | 10.0 to 29              | .020" x .020" x .006"                      |
| <a href="#">9130R thru 9149R</a>                       | 30.0 to 49              | .030" x .030" x .006"                      |
| <a href="#">9150R thru 9199R</a>                       | 50.0 to 99              | .040" x .040" x .008"                      |
| <a href="#">91100 thru 91199</a>                       | 100 to 199              | .050" x .050" x .008"                      |
| <a href="#">91200 thru 91399</a>                       | 200 to 399              | .070" x .070" x .008"                      |

| Table 2: 9000 Series Capacitors Working Voltage > 50V |                         |                                            |
|-------------------------------------------------------|-------------------------|--------------------------------------------|
| Model                                                 | Capacitance Range<br>pF | Chip Size + .002"<br>Dim A x Dim B x Dim C |
| <a href="#">902R0 thru 9010R</a>                      | 2.0 to 10.0             | .010" x .010" x .005"                      |
| <a href="#">9011R thru 9029R</a>                      | 11.0 to 29              | .015" x .015" x .005"                      |
| <a href="#">9030R thru 9049R</a>                      | 30.0 to 49              | .020" x .020" x .006"                      |
| <a href="#">9050R thru 9099R</a>                      | 50.0 to 99              | .030" x .030" x .006"                      |
| <a href="#">90100 thru 90199R</a>                     | 100 to 199              | .040" x .040" x .008"                      |
| <a href="#">90200 thru 90399R</a>                     | 200 to 399              | .050" x .050" x .008"                      |
| <a href="#">90400 thru 90600R</a>                     | 400 to 600              | .070" x .070" x .008"                      |

| Table 3: Beam Lead Capacitors 9000 Series VB > 50V |                         |               |
|----------------------------------------------------|-------------------------|---------------|
| Model                                              | Capacitance Range<br>pF | Package Style |
| <a href="#">90R1 thru 90R9</a>                     | 0.1 to 0.9              | 14-1          |
| <a href="#">901R0 thru 901R5</a>                   | 1.0 to 1.5              | 14-1          |
| <a href="#">90R5 thru 901R0</a>                    | 0.5 to 1.0              | 14-2          |
| <a href="#">901R0 thru 902R2</a>                   | 1.0 to 2.2              | 14-2          |
| <a href="#">902R2 thru 904R7</a>                   | 2.2 to 4.7              | 14-2          |
| <a href="#">905R6M</a>                             | 5.6 + 20%               | 14-2          |
| <a href="#">906R8M</a>                             | 6.8 + 20%               | 14-2          |
| <a href="#">908R2M</a>                             | 8.2 + 20%               | 14-2          |
| <a href="#">9010R0M</a>                            | 10 + 20%                | 14-3          |
| <a href="#">9015R0M</a>                            | 15 + 20%                | 14-3          |
| <a href="#">9022R0M</a>                            | 22 + 20%                | 14-3          |
| <a href="#">9033R0M</a>                            | 33 + 20%                | 14-3          |
| <a href="#">9047R0M</a>                            | 47 + 20%                | 14-4          |
| <a href="#">9068R0M</a>                            | 68 + 20%                | 14-4          |
| <a href="#">9082R0M</a>                            | 82 + 20%                | 14-4          |
| <a href="#">90100R0M</a>                           | 100 + 20%               | 14-4          |

| Table 4                        |         |
|--------------------------------|---------|
| Tolerance ±                    |         |
| A = .05 pF                     | G = 2%  |
| B = .1 pF                      | J = 5%  |
| C = .25 pF                     | K = 10% |
| D = .5 pF                      | M = 20% |
| F = 1%                         |         |
| Standard Tolerance is ±10% (K) |         |

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