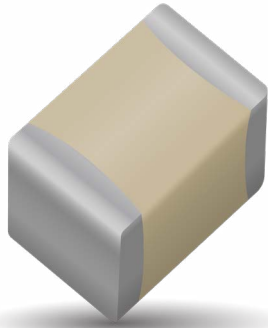


# RF/Microwave Capacitors

## RF/Microwave Multilayer Capacitors (MLC)

### 700B Series NPO Porcelain and Ceramic Multilayer Capacitors



#### GENERAL DESCRIPTION

KYOCERA AVX, the industry leader, is announcing new improved ESR/ESL performance for the 700B Series RF/Microwave Capacitors. The superior high self-resonance and zero TCC characteristic of this Series provide excellent performance over a broad range of RF and microwave applications requiring minimum drift, including RF power. Porcelain and ceramic construction provide a rugged, hermetic package.

#### FUNCTIONAL APPLICATIONS

- Bypass
- Impedance Matching
- Coupling
- DC Blocking
- Tuning

#### CIRCUIT APPLICATIONS

- Timing Power Amplifiers
- RF Power Amplifiers
- Filters
- Oscillators

#### ENVIRONMENTAL CHARACTERISTICS

|                             |                                                                                                                                                                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Thermal Shock</b>        | Mil-STD-202, Method 107, Condition A                                                                                                                                                                                                             |
| <b>Moisture Resistance</b>  | Mil-STD-202, Method 106                                                                                                                                                                                                                          |
| <b>Low Voltage Humidity</b> | Mil-STD-202, Method 103, condition A, with 1.5 VDC applied while subjected to an environment of 85°C with 85% relative humidity for 240 hours                                                                                                    |
| <b>Life Test</b>            | MIL-STD-202, Method 108, for 2000 hours, at 125°C. Voltage applied. 200% of WVDC for capacitors rated at 500 volts DC or less. 120% of WVDC for capacitors rated at 1250 volts DC or less. 100% of WVDC for capacitors rated above 1250 volts DC |
| <b>Termination Styles</b>   | Available in various surface mount and leaded styles. See Mechanical Configurations                                                                                                                                                              |
| <b>Terminal Strength</b>    | Terminations for chips and pellets withstand a pull of 5 lbs. min., 15 lbs. typical, for 5 seconds in direction perpendicular to the termination surface of the capacitor.                                                                       |

AVX 700B Series Capacitors are designed and manufactured to meet and exceed the requirements of EIA-198, MIL-PRF-55681 and MIL-PRF-123.

#### FEATURES

- Case B Size (.110" x .110")
- Capacitance Range 0.1 pF to 5100 pF
- Extended WVDC up to 1500 VDC
- Low ESR/ESL
- High Q
- Low Noise
- Ultra-Stable Performance
- High Self-Resonance
- Established Reliability (QPL)

#### PACKAGING OPTIONS



Tape & Reel



Vertical  
Orientation  
Tape & Reel



Cap Pac®  
(100 pcs)



#### ELECTRICAL SPECIFICATIONS

|                                              |                                                                                                                                                                                                                                                                       |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Temperature Coefficient (TCC)</b>         | 0 ±30 PPM/°C (-55°C to +125°C)                                                                                                                                                                                                                                        |
| <b>Capacitance Range</b>                     | 0.1 pF to 5100 pF                                                                                                                                                                                                                                                     |
| <b>Operating Temperature</b>                 | 0.1 to 200 pF: from -55°C to +175°C<br>220 to 5100 pF: from -55°C to +125°C                                                                                                                                                                                           |
| <b>Quality Factor</b>                        | Greater than 10,000<br>(1 pF to 200 pF) @ 1 MHz.<br>Greater than 2000<br>(220 pF to 1000 pF) @ 1 MHz.<br>Greater than 2000<br>(1100 pF to 5100 pF) @ 1 KHz.                                                                                                           |
| <b>Insulation Resistance (IR)</b>            | 0.1 pF to 470 pF:<br>10 <sup>6</sup> Megohms min. @ +25°C at rated WVDC.<br>10 <sup>5</sup> Megohms min. @ +125°C at rated WVDC.<br>510 pF to 5100 pF:<br>10 <sup>5</sup> Megohms min. @ +25°C at rated WVDC.<br>10 <sup>4</sup> Megohms min. @ +125°C at rated WVDC. |
| <b>Working Voltage (WVDC)</b>                | See Capacitance Values table                                                                                                                                                                                                                                          |
| <b>Dielectric Withstanding Voltage (DWV)</b> | 250% of WVDC for capacitors rated at 500 volts DC or less for 5 seconds. 150% of WVDC for capacitors rated at 1250 volts DC or less for 5 seconds. 120% of WVDC for capacitors rated above 1250 Volts DC for 5 seconds                                                |
| <b>Aging Effects</b>                         | None                                                                                                                                                                                                                                                                  |
| <b>Piezoelectric Effects</b>                 | None                                                                                                                                                                                                                                                                  |
| <b>Capacitance Drift</b>                     | ± (0.02% or 0.02 pF), whichever is greater                                                                                                                                                                                                                            |
| <b>Retrace</b>                               | Less than ±(0.02% or 0.02 pF), whichever is greater.                                                                                                                                                                                                                  |

# RF/Microwave Capacitors

## RF/Microwave Multilayer Capacitors (MLC)

### 700B Series NPO Porcelain and Ceramic Multilayer Capacitors



#### CAPACITANCE VALUES

| Cap. Code | Cap. (pF) | Tol.             | Rated WVDC |                  | Cap. Code | Cap. (pF) | Tol.    | Rated WVDC |                  | Cap. Code | Cap. (pF) | Tol.          | Rated WVDC |      | CAP. CODE | CAP. (pF) | TOL.          | RATED WVDC |      |
|-----------|-----------|------------------|------------|------------------|-----------|-----------|---------|------------|------------------|-----------|-----------|---------------|------------|------|-----------|-----------|---------------|------------|------|
|           |           |                  | STD.       | EXT.             |           |           |         | STD.       | EXT.             |           |           |               | STD.       | EXT. |           |           |               | STD.       | EXT. |
| 0R1       | 0.1       | B                | 500        | EXTENDED VOLTAGE | 3R3       | 3.3       | B, C, D | 500        | EXTENDED VOLTAGE | 330       | 33        | F, G, J, K, M | 500        | 1500 | 331       | 330       | F, G, J, K, M | 200        | N/A  |
| 0R2       | 0.2       |                  |            |                  | 3R6       | 3.6       |         |            |                  | 360       | 36        |               |            |      | 361       | 360       |               |            |      |
| 0R3       | 0.3       | 3R9              |            |                  | 3.9       | 390       |         |            |                  | 39        | 391       |               |            |      | 390       |           |               |            |      |
| 0R4       | 0.4       | 4R3              |            |                  | 4.3       | 430       |         |            |                  | 43        | 431       |               |            |      | 430       |           |               |            |      |
|           |           | 4R7              |            |                  | 4.7       | 470       |         |            |                  | 47        | 471       |               |            |      | 470       |           |               |            |      |
| 0R5       | 0.5       | 5R1              |            |                  | 5.1       | 510       |         |            |                  | 51        | 1000      |               |            | 511  | 510       |           |               |            |      |
| 0R6       | 0.6       | 5R6              |            |                  | 5.6       | 560       |         |            |                  | 56        |           |               |            | 561  | 560       |           |               |            |      |
| 0R7       | 0.7       | 6R2              |            |                  | 6.2       | 620       |         |            |                  | 62        |           |               |            | 621  | 620       |           |               |            |      |
| 0R8       | 0.8       | 6R8              |            |                  | 6.8       | 680       | 68      |            |                  | 681       |           |               |            | 680  |           |           |               |            |      |
| 0R9       | 0.9       |                  |            |                  |           |           |         |            |                  | 7R5       |           |               |            | 7.5  | 750       | 75        |               | 751        |      |
| 1R0       | 1.0       |                  |            |                  |           |           |         |            |                  | 8R2       | 8.2       |               | 820        | 82   | 821       | 820       |               |            |      |
| 1R1       | 1.1       | B, C, D          |            |                  | 1500      | 9R1       | 9.1     |            |                  | 910       | 91        |               | 911        | 910  |           |           |               |            |      |
| 1R2       | 1.2       |                  |            |                  |           | 100       | 10      |            |                  | 101       | 100       |               | 102        | 1000 |           |           |               |            |      |
| 1R3       | 1.3       |                  |            |                  |           | 110       | 11      |            |                  | 111       | 110       |               | 112        | 1100 |           |           |               |            |      |
| 1R4       | 1.4       |                  |            |                  |           | 120       | 12      |            |                  | 121       | 120       |               | 122        | 1200 |           |           |               |            |      |
| 1R5       | 1.5       |                  |            |                  |           | 130       | 13      |            |                  | 131       | 130       |               | 152        | 1500 |           |           |               |            |      |
| 1R6       | 1.6       |                  |            |                  |           | 150       | 15      |            |                  | 151       | 150       |               | 182        | 1800 |           |           |               |            |      |
| 1R7       | 1.7       |                  |            |                  |           | 160       | 16      |            |                  | 161       | 160       |               | 222        | 2200 |           |           |               |            |      |
| 1R8       | 1.8       |                  |            |                  |           | 180       | 18      |            |                  | 181       | 180       |               | 272        | 2700 |           |           |               |            |      |
| 1R9       | 1.9       |                  |            |                  |           | 200       | 20      |            |                  | 201       | 200       |               | 302        | 3000 |           |           |               |            |      |
| 2R0       | 2.0       |                  |            |                  |           | 220       | 22      |            |                  | 221       | 220       |               | 332        | 3300 |           |           |               |            |      |
| 2R1       | 2.1       | EXTENDED VOLTAGE |            |                  | 50        | 240       | 24      |            |                  | 241       | 240       |               | 392        | 3900 |           |           |               |            |      |
| 2R2       | 2.2       |                  |            |                  |           | 270       | 27      |            |                  | 271       | 270       |               | 472        | 4700 |           |           |               |            |      |
| 2R4       | 2.4       |                  |            |                  |           | 300       | 30      |            |                  | 301       | 300       |               | 512        | 5100 |           |           |               |            |      |
| 2R7       | 2.7       |                  |            |                  |           |           |         |            |                  |           |           |               |            |      |           |           |               |            |      |
| 3R0       | 3.0       |                  |            |                  |           |           |         |            |                  |           |           |               |            |      |           |           |               |            |      |

SPECIAL VALUES, TOLERANCES, DIFFERENT WVDC AND MATCHING AVAILABLE. • ENCAPSULATION OPTION AVAILABLE. PLEASE CONSULT FACTORY.  
Capacitance values in **bold** type indicate porcelain dielectric. All other capacitance values indicate ceramic dielectric.

#### HOW TO ORDER

**Series** 700

**Case Size** B  
See mechanical dimensions below

**Capacitance** 331  
EIA Capacitance Code in pF.  
First two digits = significant figures or "R" for decimal place.  
Third digit = number of zeros or after "R" significant figures

**Capacitance Tolerance Code** J

| Code | B     | C      | D     | F   | G   | J   | K    | M    |
|------|-------|--------|-------|-----|-----|-----|------|------|
| Tol. | ±1 pF | ±25 pF | ±5 pF | ±1% | ±2% | ±5% | ±10% | ±20% |

**Packaging**  
T = Tape and Reel, 500 pc qty  
TV = Vertical Tape and Reel, 500 pc qty  
Please see last Column Mechanical Configuration Table for Box and Tray Options

**Laser Marking (Optional)**

**Voltage Rating**

**Termination Style Code**  
Please see 2nd Column Mechanical Configuration Table

W 500 X T

The above part number refers to a 700B Series (case size B) 330 pF capacitor, J tolerance (±5%), 500 WVDC, with W termination (Tin/Lead, Solder Plated over Nickel Barrier), laser marking and Tape and Reel packaging.

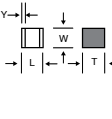
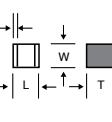
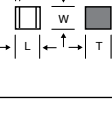
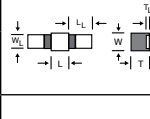
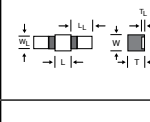
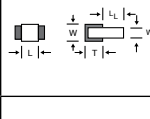
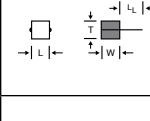
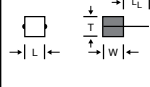
# RF/Microwave Capacitors

## RF/Microwave Multilayer Capacitors (MLC)

### 700B Series NPO Porcelain and Ceramic Multilayer Capacitors



#### MECHANICAL CONFIGURATION

| Series & Case Size | Term. Code | MIL-PRF-55681 | Case Size & Type                                                                                               | Outline W/T is a Termination Surface                                                | Body Dimensions inches (mm)          |                            |                        | Lead and Termination Dimensions and Material |                                                               |                              | Pkg Type                     | Pkg Code                                                                  |                                |
|--------------------|------------|---------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|----------------------------|------------------------|----------------------------------------------|---------------------------------------------------------------|------------------------------|------------------------------|---------------------------------------------------------------------------|--------------------------------|
|                    |            |               |                                                                                                                |                                                                                     | Length (L)                           | Width (W)                  | Thickness (T)          | Overlap (Y)                                  | Materials                                                     |                              |                              |                                                                           |                                |
| 700B               | W          | CDR14BP       | <br>Solder Plate              |    | 110+.025 -.010<br>(2.79 +0.64 -0.25) | .110 ±.015<br>(2.79 ±0.38) | .102<br>(2.59)<br>max. | .015<br>(0.38)<br>±.010<br>(0.25)            | Tin/Lead, Solder Plated over Nickel Barrier Termination       |                              |                              | T&R, 1000 or 500 pcs<br>Vertical T&R, 1000 or 500 pcs<br>Cap Pac, 100 pcs | T1K or T<br>TV1K or TV<br>C100 |
| 700B               | P          | CDR14BP       | <br>Pellet                    |    | 110+.025 -.010<br>(2.79 +0.64 -0.25) | .110 ±.015<br>(2.79 ±0.38) | .102<br>(2.59)         |                                              | Heavy Tin/Lead Coated, over Nickel Barrier Termination        |                              |                              | T&R, 1000 or 500 pcs<br>Vertical T&R, 1000 or 500 pcs<br>Cap Pac, 100 pcs | T1K or T<br>TV1K or TV<br>C100 |
| 700B               | T          | N/A           | <br>Solderable Nickel Barrier |    | 110+.025 -.010<br>(2.79 +0.64 -0.25) | .110 ±.015<br>(2.79 ±0.38) | .102<br>(2.59)         |                                              | RoHS Compliant<br>Tin Plated over Nickel Barrier Termination  |                              |                              | T&R, 1000 or 500 pcs<br>Vertical T&R, 1000 or 500 pcs<br>Cap Pac, 100 pcs | T1K or T<br>TV1K or TV<br>C100 |
| 700B               | CA         | CDR13BP       | <br>Gold Chip                |   | 110+.025 -.010<br>(2.79 +0.64 -0.25) | .110 ±.015<br>(2.79 ±0.38) | .102<br>(2.59)         |                                              | RoHS Compliant<br>Gold Plated over Nickel Barrier Termination |                              |                              | T&R, 1000 or 500 pcs<br>Vertical T&R, 1000 or 500 pcs<br>Cap Pac, 100 pcs | T1K or T<br>TV1K or TV<br>C100 |
| 700B               | MS         | CDR21BP       | <br>Microstrip              |  | .135 ±.015<br>(3.43 ±0.38)           | .110 ±.015<br>(2.79 ±0.38) | .120<br>(3.05)<br>max. | N/A                                          | Length (L <sub>L</sub> )                                      | Width (W <sub>L</sub> )      | Thickness (T <sub>L</sub> )  | Cap Pac, 20 pcs                                                           | C20                            |
| 700B               | AR         | CDR22BP       | <br>Axial Ribbon            |  |                                      |                            | .102<br>(2.59)<br>max. |                                              | .250<br>(6.35)<br>min.                                        | .093 ± .005<br>(2.36 ± 0.13) | .004 ± .001<br>(.102 ± .025) | Box, 20 or 100 pcs                                                        | B20 or B100                    |
| 700B               | RR         | CDR24BP       | <br>Radial Ribbon           |  |                                      |                            |                        |                                              |                                                               |                              |                              | Box, 20 or 100 pcs                                                        | B20 or B100                    |
| 700B               | RW         | CDR23BP       | <br>Radial Wire             |  | .145 ±.020<br>(3.68 ±0.51)           |                            | .500<br>(12.7)         |                                              | #26 AWG.,<br>.016 (.406) dia.nominal                          |                              | Box, 20 or 100 pcs           | B20 or B100                                                               |                                |
| 700B               | AW         | CDR25BP       | <br>Axial Wire              |  |                                      |                            |                        |                                              |                                                               |                              | .950<br>min.                 | Box, 20 or 100 pcs                                                        | B20 or B100                    |

Additional lead styles available: Narrow Microstrip (NM), Narrow Axial Ribbon (NA) and Vertical Narrow Microstrip (H). Other lead lengths are available; consult factory. All leads are high purity silver attached with high temperature solder and are RoHS compliant.

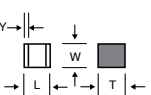
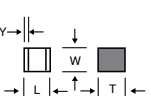
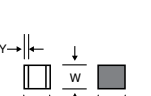
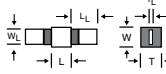
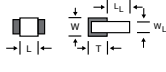
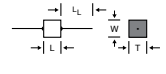
# RF/Microwave Capacitors

## RF/Microwave Multilayer Capacitors (MLC)

### 700B Series NPO Porcelain and Ceramic Multilayer Capacitors



#### MECHANICAL CONFIGURATION

| Series & Case Size | Term. Code | MIL-PRF-55681      | Case Size & Type                                                                                                                                | Outline W/T is a Termination Surface                                                           | Body Dimensions inches (mm)               |                            |                        | Lead and Termination Dimensions and Material |                                                                          |                                    | Pkg Type              | Pkg Code                                                                              |                                      |
|--------------------|------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------|------------------------|----------------------------------------------|--------------------------------------------------------------------------|------------------------------------|-----------------------|---------------------------------------------------------------------------------------|--------------------------------------|
|                    |            |                    |                                                                                                                                                 |                                                                                                | Length (L)                                | Width (W)                  | Thickness (T)          | Overlap (Y)                                  | Materials                                                                |                                    |                       |                                                                                       |                                      |
| 700B               | WN         | Meets Requirements | <div>B</div> <div></div> <div>Non-Mag Solder Plate</div>       | <div></div>   | .110 +.020<br>-.010 (2.79<br>+0.51 -0.25) | .110 ±.015<br>(2.79 ±0.38) | .102<br>(2.59)<br>max. | .015<br>(0.38)<br>±.010<br>(0.25)            | Tin / Lead, Solder Plated over<br>Non-Magnetic Barrier<br>Termination    |                                    |                       | T&R, 1000 or<br>500 pcs<br>Vertical T&R,<br>1000 or<br>500 pcs<br>Cap Pac,<br>100 pcs | T1K<br>or T<br>TV1K<br>or TV<br>C100 |
| 700B               | PN         | Meets Requirements | <div>B</div> <div></div> <div>Non-Mag Pellet</div>             | <div></div>   | .110 +.035<br>-.010 (2.79<br>+0.89 -0.25) | .110 ±.015<br>(2.79 ±0.38) |                        |                                              | Heavy Tin / Lead, Coated over<br>Non-Magnetic Barrier<br>Termination     |                                    |                       | T&R, 1000 or<br>500 pcs<br>Vertical T&R,<br>1000 or<br>500 pcs<br>Cap Pac,<br>100 pcs | T1K<br>or T<br>TV1K<br>or TV<br>C100 |
| 700B               | TN         | Meets Requirements | <div>B</div> <div></div> <div>Non-Mag Solderable Barrier</div> | <div></div>   | .110 +.020<br>-.010 (2.79<br>+0.51 -0.25) | .110 ±.015<br>(2.79 ±0.38) |                        |                                              | RoHS Compliant<br>Tin Plated over<br>Non-Magnetic Barrier<br>Termination |                                    |                       | T&R, 1000 or<br>500 pcs<br>Vertical T&R,<br>1000 or<br>500 pcs<br>Cap Pac,<br>100 pcs | T1K<br>or T<br>TV1K<br>or TV<br>C100 |
| 700B               | MN         | Meets Requirements | <div>B</div> <div></div> <div>Non-Mag Microstrip</div>         | <div></div>   | .135 ±.015<br>(3.43 ±0.38)                | .110 ±.015<br>(2.79 ±0.38) | .120<br>(3.05)<br>max. | N/A                                          | Length (L)                                                               | Width (W)                          | Thickness (T.)        | Cap Pac,<br>20 pcs                                                                    | C20                                  |
| 700B               | AN         | Meets Requirements | <div>B</div> <div></div> <div>Non-Mag Axial Ribbon</div>      | <div></div> |                                           |                            | .250<br>(6.35)<br>min. |                                              | .093 ±<br>.005<br>(2.36 ±<br>0.13)                                       | .004 ±<br>.001<br>(.102 ±<br>.025) | Box, 20 or<br>100 pcs | B20 or<br>B100                                                                        |                                      |
| 700B               | FN         | Meets Requirements | <div>B</div> <div></div> <div>Non-Mag Radial Ribbon</div>    | <div></div> |                                           |                            |                        |                                              |                                                                          |                                    | Box, 20 or<br>100 pcs | B20 or<br>B100                                                                        |                                      |
| 700B               | RN         | Meets Requirements | <div>B</div> <div></div> <div>Non-Mag Axial Wire</div>       | <div></div> | .145 ±.020<br>(3.68 ±0.51)                |                            | .500<br>(12.7)<br>min. |                                              | #26 AWG.,<br>.016 (.406) dia.<br>nominal                                 |                                    | Box, 20 or<br>100 pcs | B20 or<br>B100                                                                        |                                      |
| 700B               | BN         | Meets Requirements | <div>B</div> <div></div> <div>Non-Mag RadialWire</div>       | <div></div> |                                           |                            | .950<br>min.           |                                              |                                                                          |                                    | Box, 20 or<br>100 pcs | B20 or<br>B100                                                                        |                                      |

\*Capacitors with values greater than 200 pF contain a trace magnetic element that may exhibit weak magnetic properties.

\*\* Additional lead styles available: Narrow Microstrip (DN), Narrow Axial Ribbon (GN) and Vertical Narrow Microstrip (HN). Other lead lengths are available; consult factory. All leads are high purity silver attached with high temperature solder and RoHS compliant.

# RF/Microwave Capacitors

## RF/Microwave Multilayer Capacitors (MLC)

### 700B Series NPO Porcelain and Ceramic Multilayer Capacitors



#### SUGGESTED MOUNTING PAD DIMENSIONS

Horizontal Electrode Orientation

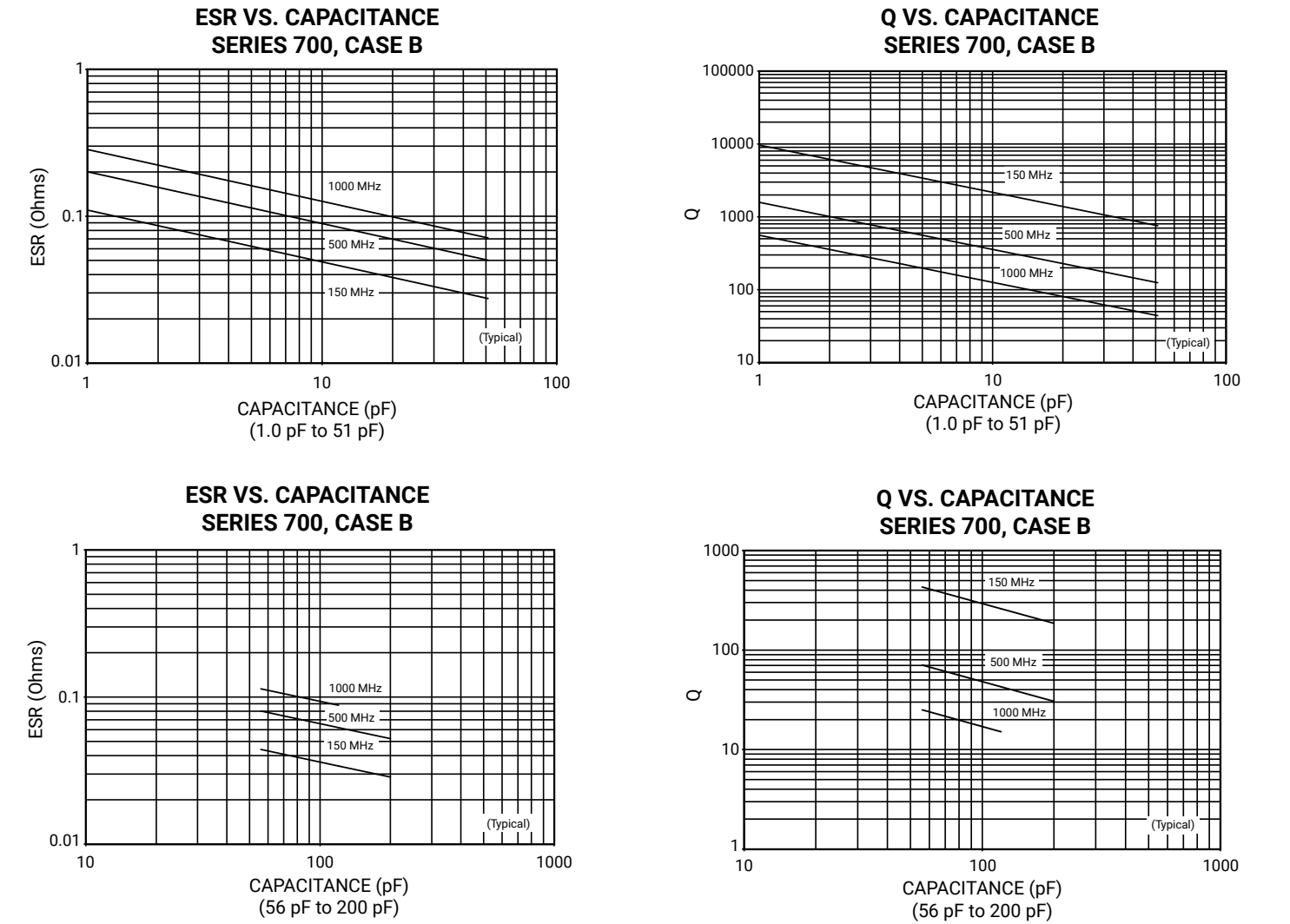
Vertical Electrode Orientation

| Case B Vertical Mount |              |        |        |        |        |
|-----------------------|--------------|--------|--------|--------|--------|
| Cap Value             | Pad Size     | A Min. | B Min. | C Min. | D Min. |
| 0.1 pF                | Normal       | .065   | .050   | .075   | .175   |
|                       | High Density | .045   | .030   | .075   | .135   |
| 0.2 pF                | Normal       | .090   | .050   | .075   | .175   |
|                       | High Density | .070   | .030   | .075   | .135   |
| 0.3 to 510 pF         | Normal       | .110   | .050   | .075   | .175   |
|                       | High Density | .090   | .030   | .075   | .135   |
| > 510 pF              | Normal       | .120   | .050   | .075   | .175   |
|                       | High Density | .100   | .030   | .075   | .135   |

| Horizontal Mount |              |        |        |        |        |
|------------------|--------------|--------|--------|--------|--------|
| All Values       | Normal       | A Min. | B Min. | C Min. | D Min. |
|                  | High Density | .110   | .030   | .075   | .135   |

#### PERFORMANCE DATA



# RF/Microwave Capacitors

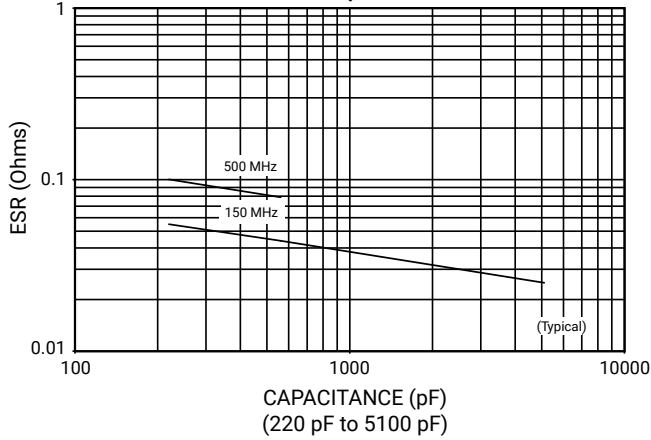
## RF/Microwave Multilayer Capacitors (MLC)

### 700B Series NPO Porcelain and Ceramic Multilayer Capacitors

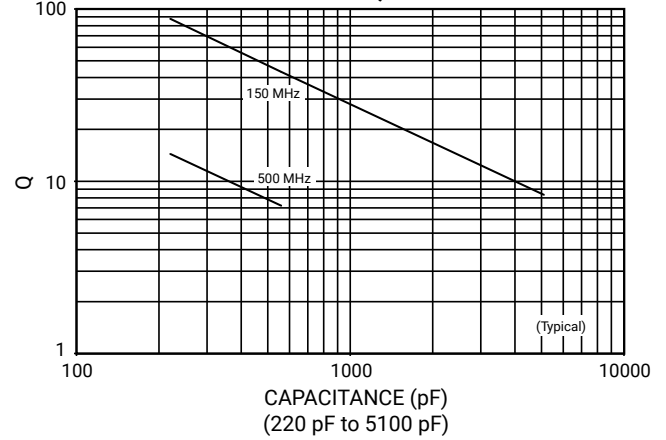


#### PERFORMANCE DATA

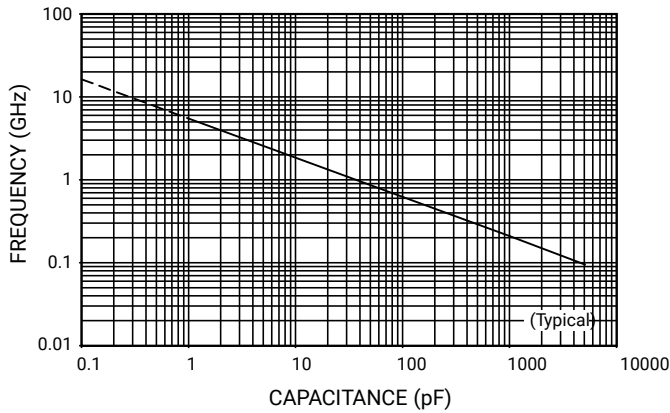
**ESR VS. CAPACITANCE  
SERIES 700, CASE B**



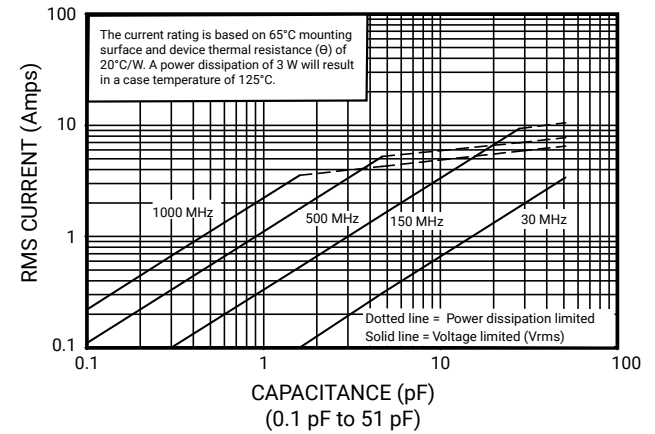
**Q VS. CAPACITANCE  
SERIES 700, CASE B**



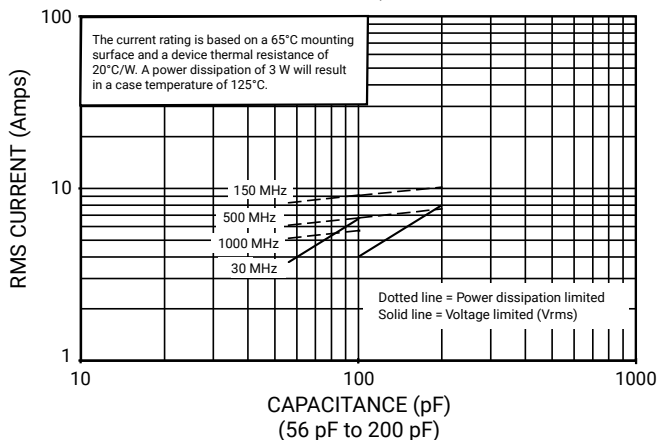
**SERIES RESONANCE VS. CAPACITANCE  
SERIES 700, CASE B**



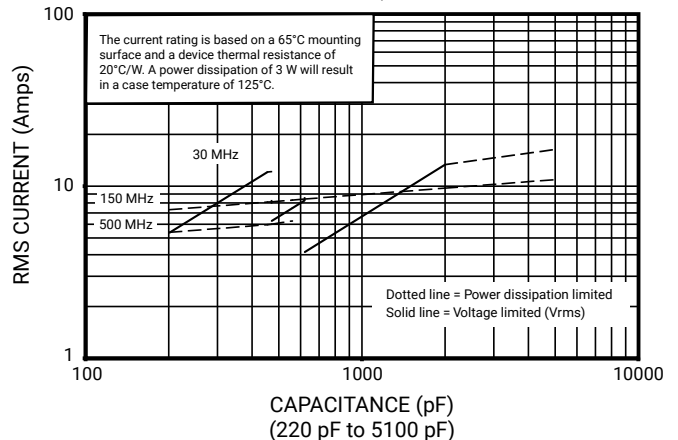
**CURRENT RATING VS. CAPACITANCE  
SERIES 700, CASE B**



**CURRENT RATING VS. CAPACITANCE  
SERIES 700, CASE B**



**CURRENT RATING VS. CAPACITANCE  
SERIES 700, CASE B**

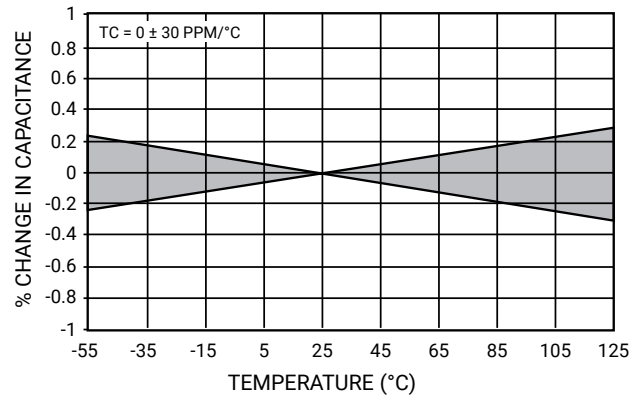


RF/Microwave Capacitors  
RF/Microwave Multilayer Capacitors (MLC)  
700B Series NPO Porcelain and Ceramic Multilayer Capacitors

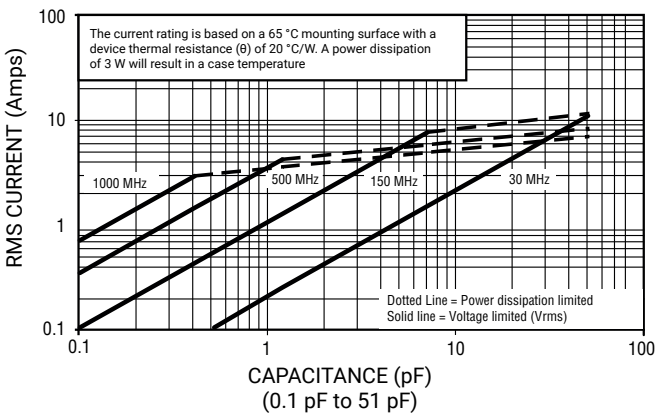


PERFORMANCE DATA

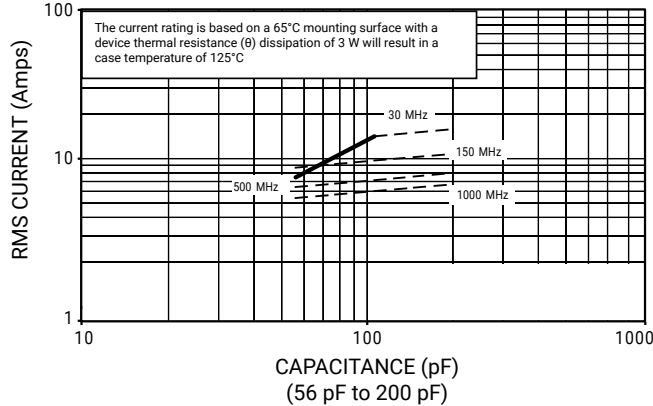
CURRENT CHANGE VS. TEMPERATURE  
SERIES 700, CASE B



CURRENT RATING VS. CAPACITANCE  
SERIES 700, CASE B, EXTENDED VOTAGE



CURRENT RATING VS. CAPACITANCE  
SERIES 700, CASE B, EXTENDED VOTAGE



# RF/Microwave Capacitors

## RF/Microwave Multilayer Capacitors (MLC)

### 700B Series NPO Porcelain and Ceramic Multilayer Capacitors



#### SAMPLE KITS

| Kit #   | RoHS Compliant                                                                    | Item Number | Description                                                                  | Cap. Value Range (pF) | Cap Value (pF)                                                           | Tol.  | Price    |
|---------|-----------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------|-------|----------|
| Kit 11  | -                                                                                 | DK0011      | 700B Porcelain and Ceramic<br>16 different values,<br>15 pcs. min. per value | 1.0 to 10             | 1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.4, 2.7, 3.0, 3.3.....                    | ±0.1  | \$165.00 |
| Kit 11T |  | DK0011T     |                                                                              |                       | 3.9, 4.7, 5.6, 6.8, 8.2 3.9, 4.7, 5.6, 6.8, 8.2 .....                    | ±0.25 |          |
|         |                                                                                   |             |                                                                              |                       | 10 .....                                                                 | ±5%   |          |
| Kit 12  | -                                                                                 | DK0012      | 700B Porcelain and Ceramic<br>16 different values,<br>15 pcs. min. per value | 10 to 100             | 10, 12, 15, 18, 20, 22, 24, 27, 30,<br>33, 39, 47, 56, 68, 82, 100 ..... | ±5%   | \$165.00 |
| Kit 12T |  | DK0012T     |                                                                              |                       |                                                                          |       |          |
| Kit 13  | -                                                                                 | DK0013      | 700B Porcelain and Ceramic<br>16 different values,<br>15 pcs. min. per value | 100 to 1000           | 100, 120, 150, 180, 200, 220, 240, 270,<br>300, 330, 390, 470 .....      | ± 5%  | \$165.00 |
| Kit 13T |  | DK0013T     |                                                                              |                       |                                                                          |       |          |
|         |                                                                                   |             |                                                                              |                       | 560, 680, 820, 1000.....                                                 | ±10%  |          |

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