

# Cylindrical Types, High-Voltage Mica Capacitors

## Types 291, 292, 293, 294 — Cylindrical Case, High-Current and High-Voltage Circuits



Designed for frequencies ranging from 100 kHz to 3 MHz, Mica Capacitor Types 291, 292, 293 and 294 are well suited for high-current and high-voltage circuits like radio transmitters. Cast in cylindrical cases, these capacitors are electrically equivalent to MIL-C-5 Styles CM75 through CM93 in capacitance and current ratings but are far superior in environmental capability, temperature range, physical size, mounting configuration, and reliability.

### Highlights

- Cast in Cylindrical Cases
- Highly shock resistant
- Convenient mounting
- Excellent for radio transmission

### Specifications

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| <b>Capacitance Range:</b>     | 47 pF to 0.1 $\mu$ F                            |
| <b>Voltage Range:</b>         | 1 to 30 kV <sub>pk</sub>                        |
| <b>Capacitance Tolerance:</b> | $\pm 2\%$ (G), $\pm 5\%$ (J)                    |
| <b>Temperature Range:</b>     | $-55^{\circ}\text{C}$ to $+125^{\circ}\text{C}$ |

### Type 291 Ratings

| Cap<br>(pF)      | Catalog<br>Part Number | Maximum AC Current at 65 °C |              |                |                |
|------------------|------------------------|-----------------------------|--------------|----------------|----------------|
|                  |                        | 3 MHz<br>(A)                | 1 MHz<br>(A) | 300 kHz<br>(A) | 100 kHz<br>(A) |
| 1,000 Peak Volts |                        |                             |              |                |                |
| 75000            | 29110B753JO0           | 18                          | 22           | 22             | 16             |
| 82000            | 29110B823JO0           | 18                          | 22           | 22             | 16             |
| 91000            | 29110B913JO0           | 18                          | 22           | 22             | 16             |
| 100000           | 29110B104JO0           | 18                          | 22           | 22             | 18             |
| 1,500 Peak Volts |                        |                             |              |                |                |
| 30000            | 29115B303JO0           | 18                          | 22           | 18             | 12             |
| 33000            | 29115B333JO0           | 18                          | 22           | 20             | 13             |
| 36000            | 29115B363JO0           | 18                          | 22           | 20             | 13             |
| 39000            | 29115B393JO0           | 18                          | 22           | 20             | 13             |
| 43000            | 29115B433JO0           | 18                          | 22           | 22             | 13             |
| 47000            | 29115B473JO0           | 18                          | 22           | 22             | 15             |
| 51000            | 29115B513JO0           | 18                          | 22           | 22             | 15             |
| 56000            | 29115B563JO0           | 18                          | 22           | 22             | 15             |
| 62000            | 29115B623JO0           | 18                          | 22           | 22             | 16             |
| 68000            | 29115B683JO0           | 18                          | 22           | 22             | 16             |
| 2,000 Peak Volts |                        |                             |              |                |                |
| 18000            | 29120B183JO0           | 18                          | 20           | 16             | 11             |
| 20000            | 29120B203JO0           | 18                          | 22           | 18             | 11             |
| 22000            | 29120B223JO0           | 18                          | 22           | 18             | 11             |
| 24000            | 29120B243JO0           | 18                          | 22           | 18             | 12             |
| 27000            | 29120B273JO0           | 18                          | 22           | 18             | 12             |

| Cap<br>(pF)      | Catalog<br>Part Number | Maximum AC Current at 65 °C |              |                |                |
|------------------|------------------------|-----------------------------|--------------|----------------|----------------|
|                  |                        | 3 MHz<br>(A)                | 1 MHz<br>(A) | 300 kHz<br>(A) | 100 kHz<br>(A) |
| 3,000 Peak Volts |                        |                             |              |                |                |
| 12000            | 29130B123JO0           | 18                          | 20           | 16             | 9.1            |
| 13000            | 29130B133JO0           | 18                          | 20           | 16             | 10             |
| 15000            | 29130B153JO0           | 18                          | 20           | 16             | 10             |
| 16000            | 29130B163JO0           | 18                          | 20           | 16             | 10             |
| 4,000 Peak Volts |                        |                             |              |                |                |
| 5100             | 29140B512JO0           | 16                          | 16           | 12             | 6.2            |
| 5600             | 29140B562JO0           | 16                          | 18           | 13             | 6.8            |
| 6000             | 29140B602JO0           | 16                          | 18           | 13             | 7.5            |
| 6200             | 29140B622JO0           | 16                          | 18           | 13             | 7.5            |
| 6800             | 29140B682JO0           | 16                          | 18           | 13             | 7.5            |
| 7500             | 29140B752JO0           | 18                          | 18           | 13             | 7.5            |
| 8200             | 29140B822JO0           | 18                          | 20           | 15             | 8.2            |
| 9100             | 29140B912JO0           | 18                          | 20           | 15             | 8.2            |
| 10000            | 29140B103JO0           | 18                          | 20           | 15             | 9.1            |
| 11000            | 29140B113JO0           | 18                          | 20           | 15             | 9.1            |
| 6,000 Peak Volts |                        |                             |              |                |                |
| 47               | 29160B470JO0           | 2                           | 1.2          | 0.5            | 0.2            |
| 50               | 29160B500JO0           | 2                           | 1.3          | 0.6            | 0.2            |
| 51               | 29160B510JO0           | 2                           | 1.3          | 0.6            | 0.2            |
| 56               | 29160B560JO0           | 2.2                         | 1.3          | 0.6            | 0.2            |
| 62               | 29160B620JO0           | 2.2                         | 1.5          | 0.6            | 0.2            |

# Cylindrical Types, High-Voltage Mica Capacitors

## Types 291 and 292 Ratings

| Cap<br>(pF)      | Catalog<br>Part Number | Maximum AC Current at 65 °C |              |                |                |
|------------------|------------------------|-----------------------------|--------------|----------------|----------------|
|                  |                        | 3 MHz<br>(A)                | 1 MHz<br>(A) | 300 kHz<br>(A) | 100 kHz<br>(A) |
| 68               | 29160B680JO0           | 2.4                         | 1.5          | 0.7            | 0.2            |
| 75               | 29160B750JO0           | 2.4                         | 1.6          | 0.7            | 0.2            |
| 82               | 29160B820JO0           | 2.7                         | 1.8          | 0.8            | 0.2            |
| 91               | 29160B910JO0           | 2.7                         | 1.8          | 0.9            | 0.3            |
| 100              | 29160B101JO0           | 3                           | 2            | 0.9            | 0.3            |
| 110              | 29160B111JO0           | 3                           | 2.2          | 1              | 0.3            |
| 120              | 29160B121JO0           | 3.3                         | 2.2          | 1              | 0.3            |
| 130              | 29160B131JO0           | 3.3                         | 2.4          | 1.1            | 0.4            |
| 150              | 29160B151JO0           | 3.6                         | 2.4          | 1.2            | 0.4            |
| 160              | 29160B161JO0           | 3.9                         | 2.7          | 1.3            | 0.4            |
| 180              | 29160B181JO0           | 4.3                         | 3            | 1.5            | 0.5            |
| 200              | 29160B201JO0           | 4.3                         | 3            | 1.5            | 0.5            |
| 220              | 29160B221JO0           | 4.7                         | 3.3          | 1.6            | 0.6            |
| 240              | 29160B241JO0           | 4.7                         | 3.6          | 1.8            | 0.6            |
| 270              | 29160B271JO0           | 5.1                         | 3.6          | 2              | 0.6            |
| 300              | 29160B301JO0           | 5.1                         | 3.9          | 2              | 0.7            |
| 330              | 29160B331JO0           | 5.6                         | 4.3          | 2.2            | 0.8            |
| 360              | 29160B361JO0           | 6.2                         | 4.3          | 2.4            | 0.8            |
| 390              | 29160B391JO0           | 6.2                         | 4.7          | 2.7            | 0.8            |
| 400              | 29160B401JO0           | 6.2                         | 4.7          | 2.7            | 0.8            |
| 430              | 29160B431JO0           | 6.8                         | 4.7          | 2.7            | 0.8            |
| 470              | 29160B471JO0           | 6.8                         | 5.1          | 3              | 0.9            |
| 500              | 29160B501JO0           | 6.8                         | 5.1          | 3              | 1              |
| 510              | 29160B511JO0           | 6.8                         | 5.1          | 3              | 1              |
| 560              | 29160B561JO0           | 7.5                         | 5.6          | 3.3            | 1.1            |
| 620              | 29160B621JO0           | 8.2                         | 6.2          | 3.6            | 1.2            |
| 680              | 29160B681JO0           | 8.2                         | 6.2          | 3.9            | 1.3            |
| 750              | 29160B751JO0           | 8.2                         | 6.8          | 3.9            | 1.5            |
| 820              | 29160B821JO0           | 9.1                         | 6.8          | 4.3            | 1.5            |
| 910              | 29160B911JO0           | 9.1                         | 7.5          | 4.7            | 1.6            |
| 1000             | 29160B102JO0           | 10                          | 7.5          | 5.1            | 1.8            |
| 1100             | 29160B112JO0           | 10                          | 8.2          | 5.1            | 2              |
| 1200             | 29160B122JO0           | 11                          | 8.2          | 5.6            | 2.2            |
| 1300             | 29160B132JO0           | 11                          | 9.1          | 6.2            | 2.2            |
| 1500             | 29160B152JO0           | 12                          | 9.1          | 6.2            | 2.4            |
| 1600             | 29160B162JO0           | 12                          | 10           | 6.8            | 2.7            |
| 1800             | 29160B182JO0           | 13                          | 11           | 7.5            | 3.0            |
| 2000             | 29160B202JO0           | 13                          | 11           | 7.5            | 3.3            |
| 2200             | 29160B222JO0           | 13                          | 12           | 8.2            | 3.6            |
| 2400             | 29160B242JO0           | 15                          | 13           | 9.1            | 3.9            |
| 2700             | 29160B272JO0           | 15                          | 13           | 9.1            | 3.9            |
| 3000             | 29160B302JO0           | 15                          | 13           | 9.1            | 4.3            |
| 3300             | 29160B332JO0           | 15                          | 15           | 10             | 4.7            |
| 3600             | 29160B362JO0           | 16                          | 15           | 11             | 5.1            |
| 3900             | 29160B392JO0           | 16                          | 15           | 11             | 5.6            |
| 4000             | 29160B402JO0           | 16                          | 15           | 11             | 5.6            |
| 4300             | 29160B432JO0           | 16                          | 15           | 11             | 5.6            |
| 4700             | 29160B472JO0           | 16                          | 16           | 12             | 6.2            |
| 5000             | 29160B502JO0           | 16                          | 16           | 12             | 6.2            |
| 1,500 Peak Volts |                        |                             |              |                |                |
| 75000            | 29215B753JO0           | 20                          | 39           | 33             | 20             |
| 82000            | 29215B823JO0           | 20                          | 39           | 33             | 20             |
| 91000            | 29215B913JO0           | 20                          | 39           | 33             | 20             |
| 100000           | 29215B104JO0           | 20                          | 39           | 36             | 20             |
| 2,000 Peak Volts |                        |                             |              |                |                |
| 30000            | 29220B303JO0           | 20                          | 33           | 24             | 15             |
| 33000            | 29220B333JO0           | 20                          | 33           | 24             | 15             |
| 36000            | 29220B363JO0           | 20                          | 33           | 27             | 16             |
| 39000            | 29220B393JO0           | 20                          | 36           | 27             | 16             |
| 43000            | 29220B433JO0           | 20                          | 36           | 27             | 16             |
| 47000            | 29220B473JO0           | 20                          | 36           | 27             | 18             |
| 51000            | 29220B513JO0           | 20                          | 36           | 30             | 18             |
| 56000            | 29220B563JO0           | 20                          | 36           | 30             | 18             |
| 62000            | 29220B623JO0           | 20                          | 39           | 30             | 18             |
| 68000            | 29220B683JO0           | 20                          | 39           | 33             | 20             |
| 3,000 Peak Volts |                        |                             |              |                |                |
| 18000            | 29230B183JO0           | 20                          | 30           | 20             | 12             |
| 20000            | 29230B203JO0           | 20                          | 30           | 22             | 13             |
| 22000            | 29230B223JO0           | 20                          | 30           | 22             | 13             |
| 24000            | 29230B243JO0           | 20                          | 33           | 24             | 13             |
| 27000            | 29230B273JO0           | 20                          | 33           | 24             | 13             |
| 4,000 Peak Volts |                        |                             |              |                |                |
| 12000            | 29240B123JO0           | 20                          | 27           | 18             | 10             |
| 13000            | 29240B133JO0           | 20                          | 27           | 20             | 10             |
| 15000            | 29240B153JO0           | 20                          | 27           | 20             | 11             |
| 16000            | 29240B163JO0           | 20                          | 27           | 20             | 11             |
| 5,000 Peak Volts |                        |                             |              |                |                |
| 5600             | 29250B562JO0           | 20                          | 20           | 13             | 6.8            |
| 6000             | 29250B602JO0           | 20                          | 22           | 15             | 6.8            |
| 6200             | 29250B622JO0           | 20                          | 22           | 15             | 6.8            |
| 6800             | 29250B682JO0           | 20                          | 22           | 15             | 7.5            |
| 7500             | 29250B752JO0           | 20                          | 22           | 15             | 7.5            |
| 8200             | 29250B822JO0           | 20                          | 24           | 16             | 8.2            |
| 9100             | 29250B912JO0           | 20                          | 24           | 16             | 8.2            |
| 10000            | 29250B103JO0           | 20                          | 24           | 18             | 9.1            |
| 11000            | 29250B113JO0           | 20                          | 27           | 18             | 9.1            |
| 6,000 Peak Volts |                        |                             |              |                |                |
| 4700             | 29260B472JO0           | 20                          | 20           | 13             | 6.2            |
| 5000             | 29260B502JO0           | 20                          | 20           | 13             | 6.2            |
| 5100             | 29260B512JO0           | 20                          | 20           | 13             | 6.2            |

# Cylindrical Types, High-Voltage Mica Capacitors

## Types 292 and 293 Ratings

| Cap<br>(pF)       | Catalog<br>Part Number | Maximum AC Current at 65 °C |              |                |                |  |
|-------------------|------------------------|-----------------------------|--------------|----------------|----------------|--|
|                   |                        | 3 MHz<br>(A)                | 1 MHz<br>(A) | 300 kHz<br>(A) | 100 kHz<br>(A) |  |
| 8,000 Peak Volts  |                        |                             |              |                |                |  |
| 2200              | 29280B222JO0           | 18                          | 13           | 9.1            | 3.9            |  |
| 2400              | 29280B242JO0           | 18                          | 15           | 10             | 4.3            |  |
| 2700              | 29280B272JO0           | 18                          | 15           | 10             | 4.3            |  |
| 3000              | 29280B302JO0           | 18                          | 16           | 10             | 4.7            |  |
| 3300              | 29280B332JO0           | 20                          | 16           | 11             | 4.7            |  |
| 3600              | 29280B362JO0           | 20                          | 18           | 11             | 5.1            |  |
| 3900              | 29280B392JO0           | 20                          | 18           | 12             | 5.6            |  |
| 4000              | 29280B402JO0           | 20                          | 18           | 12             | 5.6            |  |
| 4300              | 29280B432JO0           | 20                          | 18           | 12             | 5.6            |  |
| 10,000 Peak Volts |                        |                             |              |                |                |  |
| 47                | 292100B470JO0          | 2.7                         | 2            | 0.9            | 0.3            |  |
| 51                | 292100B510JO0          | 2.7                         | 2            | 1              | 0.3            |  |
| 56                | 292100B560JO0          | 3                           | 2.2          | 1              | 0.3            |  |
| 62                | 292100B620JO0          | 3.3                         | 2.2          | 1.1            | 0.3            |  |
| 68                | 292100B680JO0          | 3.3                         | 2.4          | 1.2            | 0.3            |  |
| 75                | 292100B750JO0          | 3.6                         | 2.4          | 1.2            | 0.4            |  |
| 82                | 292100B820JO0          | 3.6                         | 2.7          | 1.3            | 0.4            |  |
| 91                | 292100B910JO0          | 3.9                         | 2.7          | 1.5            | 0.4            |  |
| 100               | 292100B101JO0          | 4.3                         | 3            | 1.5            | 0.5            |  |
| 110               | 292100B111JO0          | 4.3                         | 3            | 1.6            | 0.5            |  |
| 120               | 292100B121JO0          | 4.7                         | 3.3          | 1.6            | 0.6            |  |
| 130               | 292100B131JO0          | 4.7                         | 3.6          | 1.8            | 0.6            |  |
| 150               | 292100B151JO0          | 5.1                         | 3.6          | 1.8            | 0.6            |  |
| 160               | 292100B161JO0          | 5.1                         | 3.9          | 2              | 0.8            |  |
| 180               | 292100B181JO0          | 5.6                         | 4.3          | 2.2            | 0.8            |  |
| 200               | 292100B201JO0          | 6.2                         | 4.3          | 2.4            | 0.8            |  |
| 220               | 292100B221JO0          | 6.2                         | 4.7          | 2.4            | 0.9            |  |
| 240               | 292100B241JO0          | 6.8                         | 5.1          | 2.7            | 1.0            |  |
| 250               | 292100B251JO0          | 6.8                         | 5.1          | 2.7            | 1.0            |  |
| 270               | 292100B271JO0          | 6.8                         | 5.1          | 2.7            | 1.0            |  |
| 300               | 292100B301JO0          | 7.5                         | 5.6          | 3              | 1.1            |  |
| 330               | 292100B331JO0          | 7.5                         | 5.6          | 3              | 1.2            |  |
| 360               | 292100B361JO0          | 8.2                         | 6.2          | 3.6            | 1.2            |  |
| 390               | 292100B391JO0          | 8.2                         | 6.2          | 3.6            | 1.3            |  |
| 430               | 292100B431JO0          | 9.1                         | 6.2          | 3.6            | 1.3            |  |
| 470               | 292100B471JO0          | 9.1                         | 6.8          | 3.9            | 1.5            |  |
| 500               | 292100B501JO0          | 9.1                         | 6.8          | 3.9            | 1.6            |  |
| 510               | 292100B511JO0          | 9.1                         | 6.8          | 3.9            | 1.6            |  |
| 560               | 292100B561JO0          | 10                          | 7.5          | 4.3            | 1.6            |  |
| 620               | 292100B621JO0          | 11                          | 8.2          | 4.7            | 1.8            |  |
| 680               | 292100B681JO0          | 11                          | 8.2          | 4.7            | 1.8            |  |
| 750               | 292100B751JO0          | 11                          | 8.2          | 5.1            | 2.0            |  |
| 820               | 292100B821JO0          | 12                          | 9.1          | 5.1            | 2.2            |  |
| 910               | 292100B911JO0          | 12                          | 9.1          | 5.6            | 2.2            |  |
| 1000              | 292100B102JO0          | 12                          | 10           | 6.2            | 2.4            |  |

| Cap<br>(pF) | Catalog<br>Part Number | Maximum AC Current at 65 °C |              |                |                |
|-------------|------------------------|-----------------------------|--------------|----------------|----------------|
|             |                        | 3 MHz<br>(A)                | 1 MHz<br>(A) | 300 kHz<br>(A) | 100 kHz<br>(A) |
| 1100        | 292100B112JO0          | 13                          | 10           | 6.2            | 2.7            |
| 1200        | 292100B122JO0          | 15                          | 11           | 6.8            | 2.7            |
| 1300        | 292100B132JO0          | 15                          | 11           | 6.8            | 2.7            |
| 1500        | 292100B152JO0          | 15                          | 12           | 7.5            | 3.0            |
| 1600        | 292100B162JO0          | 16                          | 12           | 7.5            | 3.3            |
| 1800        | 292100B182JO0          | 16                          | 13           | 8.2            | 3.6            |
| 2000        | 292100B202JO0          | 16                          | 13           | 8.2            | 3.6            |

| Cap<br>(pF)              | Catalog<br>Part Number | Maximum AC Current at 65 °C |              |                |                | Case<br>Height<br>(in) |
|--------------------------|------------------------|-----------------------------|--------------|----------------|----------------|------------------------|
|                          |                        | 3 MHz<br>(A)                | 1 MHz<br>(A) | 300 kHz<br>(A) | 100 kHz<br>(A) |                        |
| 75000                    | 29320B753JO0           | 24                          | 51           | 39             | 24             | 2.50                   |
| 82000                    | 29320B823JO0           | 24                          | 51           | 39             | 24             | 2.50                   |
| 91000                    | 29320B913JO0           | 24                          | 51           | 39             | 24             | 2.75                   |
| 100000                   | 29320B104JO0           | 24                          | 51           | 39             | 24             | 2.75                   |
| <b>3,000 Peak Volts</b>  |                        |                             |              |                |                |                        |
| 27000                    | 29330B273JO0           | 24                          | 51           | 33             | 18             | 2.50                   |
| 30000                    | 29330B303JO0           | 24                          | 51           | 33             | 20             | 2.50                   |
| 33000                    | 29330B333JO0           | 24                          | 51           | 33             | 20             | 2.50                   |
| 36000                    | 29330B363JO0           | 24                          | 51           | 36             | 22             | 2.50                   |
| 39000                    | 29330B393JO0           | 24                          | 51           | 36             | 22             | 2.50                   |
| 43000                    | 29330B433JO0           | 24                          | 51           | 36             | 22             | 2.50                   |
| 47000                    | 29330B473JO0           | 24                          | 51           | 36             | 22             | 2.50                   |
| 51000                    | 29330B513JO0           | 24                          | 51           | 36             | 24             | 2.75                   |
| 56000                    | 29330B563JO0           | 24                          | 51           | 36             | 24             | 2.75                   |
| 62000                    | 29330B623JO0           | 24                          | 51           | 39             | 24             | 3.00                   |
| 68000                    | 29330B683JO0           | 24                          | 51           | 39             | 24             | 3.00                   |
| <b>5,000 Peak Volts</b>  |                        |                             |              |                |                |                        |
| 12000                    | 29350B123JO0           | 24                          | 43           | 27             | 13             | 2.50                   |
| 13000                    | 29350B133JO0           | 24                          | 43           | 27             | 13             | 2.50                   |
| 15000                    | 29350B153JO0           | 24                          | 43           | 27             | 15             | 2.50                   |
| 16000                    | 29350B163JO0           | 24                          | 47           | 30             | 15             | 2.50                   |
| 18000                    | 29350B183JO0           | 24                          | 47           | 30             | 16             | 2.75                   |
| 20000                    | 29350B203JO0           | 24                          | 47           | 30             | 18             | 2.75                   |
| 22000                    | 29350B223JO0           | 24                          | 47           | 30             | 18             | 3.00                   |
| 24000                    | 29350B243JO0           | 24                          | 51           | 33             | 18             | 3.25                   |
| <b>8,000 Peak Volts</b>  |                        |                             |              |                |                |                        |
| 9100                     | 29380B912JO0           | 24                          | 39           | 24             | 12             | 3.25                   |
| 10000                    | 29380B103JO0           | 24                          | 39           | 24             | 12             | 3.25                   |
| 11000                    | 29380B113JO0           | 24                          | 39           | 27             | 13             | 3.25                   |
| <b>10,000 Peak Volts</b> |                        |                             |              |                |                |                        |
| 4700                     | 293100B472JO0          | 22                          | 27           | 18             | 8.2            | 2.75                   |
| 5000                     | 293100B502JO0          | 24                          | 30           | 18             | 9.1            | 2.75                   |
| 5100                     | 293100B512JO0          | 24                          | 30           | 18             | 9.1            | 2.75                   |
| 5600                     | 293100B562JO0          | 24                          | 33           | 20             | 9.1            | 3.00                   |

# Cylindrical Types, High-Voltage Mica Capacitors

## Types 293 and 294 Ratings

| Cap<br>(pF)       | Catalog<br>Part Number | Maximum AC Current at 65 °C |              |                |                | Case<br>Height<br>(in) |
|-------------------|------------------------|-----------------------------|--------------|----------------|----------------|------------------------|
|                   |                        | 3 MHz<br>(A)                | 1 MHz<br>(A) | 300 kHz<br>(A) | 100 kHz<br>(A) |                        |
| 6000              | 293100B602JO0          | 24                          | 33           | 20             | 10             | 3.00                   |
| 6200              | 293100B622JO0          | 24                          | 33           | 20             | 10             | 3.00                   |
| 6800              | 293100B682JO0          | 24                          | 33           | 20             | 10             | 3.00                   |
| 7500              | 293100B752JO0          | 24                          | 36           | 22             | 11             | 3.25                   |
| 8000              | 293100B802JO0          | 24                          | 36           | 22             | 11             | 3.25                   |
| 8200              | 293100B822JO0          | 24                          | 36           | 22             | 11             | 3.25                   |
| 12,000 Peak Volts |                        |                             |              |                |                |                        |
| 2200              | 293120B222JO0          | 20                          | 20           | 12             | 5.6            | 2.50                   |
| 2400              | 293120B242JO0          | 20                          | 22           | 13             | 6.2            | 2.75                   |
| 2700              | 293120B272JO0          | 20                          | 22           | 13             | 6.2            | 2.75                   |
| 3000              | 293120B302JO0          | 20                          | 24           | 15             | 6.8            | 3.00                   |
| 3300              | 293120B332JO0          | 22                          | 24           | 15             | 6.8            | 3.00                   |
| 3600              | 293120B362JO0          | 22                          | 24           | 15             | 7.5            | 3.00                   |
| 3900              | 293120B392JO0          | 22                          | 27           | 16             | 7.5            | 3.00                   |
| 4000              | 293120B402JO0          | 22                          | 27           | 16             | 7.5            | 3.25                   |
| 4300              | 293120B432JO0          | 22                          | 27           | 16             | 8.2            | 3.25                   |
| 15,000 Peak Volts |                        |                             |              |                |                |                        |
| 1200              | 293150B122JO0          | 16                          | 15           | 8.2            | 4.3            | 2.50                   |
| 1300              | 293150B132JO0          | 16                          | 15           | 9.1            | 4.3            | 2.50                   |
| 1500              | 293150B152JO0          | 16                          | 16           | 9.1            | 4.7            | 2.75                   |
| 1600              | 293150B162JO0          | 18                          | 18           | 10             | 4.7            | 2.75                   |
| 1800              | 293150B182JO0          | 18                          | 18           | 11             | 5.1            | 3.00                   |
| 2000              | 293150B202JO0          | 18                          | 20           | 11             | 5.6            | 3.00                   |
| 20,000 Peak Volts |                        |                             |              |                |                |                        |
| 47                | 293200B470JO0          | 5.1                         | 2.2          | 0.5            | 0.1            | 2.50                   |
| 50                | 293200B500JO0          | 5.1                         | 2.4          | 0.5            | 0.2            | 2.50                   |
| 51                | 293200B510JO0          | 5.1                         | 2.4          | 0.5            | 0.2            | 2.50                   |
| 56                | 293200B560JO0          | 5.6                         | 2.4          | 0.6            | 0.2            | 2.50                   |
| 62                | 293200B620JO0          | 5.6                         | 2.7          | 0.7            | 0.2            | 2.50                   |
| 68                | 293200B680JO0          | 5.6                         | 2.7          | 0.8            | 0.2            | 2.50                   |
| 75                | 293200B750JO0          | 6.2                         | 3            | 0.9            | 0.3            | 2.50                   |
| 82                | 293200B820JO0          | 6.2                         | 3            | 1              | 0.3            | 2.50                   |
| 91                | 293200B910JO0          | 6.8                         | 3.3          | 1.1            | 0.4            | 2.50                   |
| 100               | 293200B101JO0          | 6.8                         | 3.6          | 1.3            | 0.5            | 2.50                   |
| 110               | 293200B111JO0          | 7.5                         | 3.9          | 1.5            | 0.5            | 2.50                   |
| 120               | 293200B121JO0          | 7.5                         | 4.3          | 1.6            | 0.6            | 2.50                   |
| 130               | 293200B131JO0          | 7.5                         | 4.3          | 1.8            | 0.7            | 2.50                   |
| 150               | 293200B151JO0          | 8.2                         | 4.7          | 2              | 0.8            | 2.50                   |
| 160               | 293200B161JO0          | 8.2                         | 5.1          | 2.2            | 0.9            | 2.50                   |
| 180               | 293200B181JO0          | 9.1                         | 5.1          | 2.4            | 1              | 2.50                   |
| 200               | 293200B201JO0          | 9.1                         | 5.6          | 2.7            | 1.1            | 2.50                   |
| 220               | 293200B221JO0          | 9.1                         | 6.2          | 3              | 1.2            | 2.50                   |
| 240               | 293200B241JO0          | 10                          | 6.2          | 3.6            | 1.3            | 2.50                   |
| 250               | 293200B251JO0          | 10                          | 6.2          | 6.8            | 1.3            | 2.50                   |
| 270               | 293200B271JO0          | 10                          | 6.8          | 3.6            | 1.5            | 2.50                   |
| 300               | 293200B301JO0          | 10                          | 6.8          | 3.9            | 1.6            | 2.50                   |
| 330               | 293200B331JO0          | 11                          | 7.5          | 3.9            | 1.6            | 2.50                   |

| Cap<br>(pF)       | Catalog<br>Part Number | Maximum AC Current at 65 °C |              |                |                | Case<br>Height<br>(in) |
|-------------------|------------------------|-----------------------------|--------------|----------------|----------------|------------------------|
|                   |                        | 3 MHz<br>(A)                | 1 MHz<br>(A) | 300 kHz<br>(A) | 100 kHz<br>(A) |                        |
| 360               | 293200B361JO0          | 11                          | 7.5          | 3.9            | 1.8            | 2.50                   |
| 390               | 293200B391JO0          | 11                          | 8.2          | 4.3            | 2              | 2.50                   |
| 430               | 293200B431JO0          | 12                          | 8.2          | 4.7            | 2.2            | 2.50                   |
| 470               | 293200B471JO0          | 12                          | 9.1          | 4.7            | 2.2            | 2.50                   |
| 500               | 293200B501JO0          | 12                          | 9.1          | 5.1            | 2.4            | 2.50                   |
| 510               | 293200B511JO0          | 12                          | 9.1          | 5.1            | 2.4            | 2.50                   |
| 560               | 293200B561JO0          | 13                          | 10           | 5.6            | 2.7            | 2.50                   |
| 620               | 293200B621JO0          | 13                          | 11           | 6.2            | 2.7            | 2.50                   |
| 680               | 293200B681JO0          | 13                          | 11           | 6.2            | 2.7            | 2.75                   |
| 750               | 293200B751JO0          | 13                          | 12           | 6.8            | 3              | 2.75                   |
| 800               | 293200B801JO0          | 15                          | 12           | 6.8            | 3.3            | 2.75                   |
| 820               | 293200B821JO0          | 15                          | 12           | 6.8            | 3.3            | 2.75                   |
| 910               | 293200B911JO0          | 15                          | 13           | 7.5            | 3.6            | 2.75                   |
| 1000              | 293200B102JO0          | 15                          | 13           | 7.5            | 3.6            | 2.75                   |
| 1100              | 293200B112JO0          | 16                          | 15           | 8.2            | 3.9            | 2.75                   |
| 3,000 Peak Volts  |                        |                             |              |                |                |                        |
| 82000             | 29430B823JO0           | 30                          | 62           | 43             | 39             | 5.00                   |
| 91000             | 29430B913JO0           | 30                          | 62           | 43             | 39             | 5.00                   |
| 100000            | 29430B104JO0           | 30                          | 62           | 43             | 39             | 5.00                   |
| 4,000 Peak Volts  |                        |                             |              |                |                |                        |
| 68000             | 29440B683JO0           | 30                          | 56           | 39             | 36             | 5.00                   |
| 75000             | 29440B753JO0           | 30                          | 62           | 43             | 36             | 5.00                   |
| 5,000 Peak Volts  |                        |                             |              |                |                |                        |
| 33000             | 29450B333JO0           | 30                          | 56           | 39             | 27             | 4.50                   |
| 36000             | 29450B363JO0           | 30                          | 56           | 39             | 30             | 4.50                   |
| 39000             | 29450B393JO0           | 30                          | 56           | 39             | 30             | 5.00                   |
| 40000             | 29450B403JO0           | 30                          | 56           | 39             | 30             | 5.00                   |
| 43000             | 29450B433JO0           | 30                          | 56           | 39             | 30             | 5.00                   |
| 47000             | 29450B473JO0           | 30                          | 56           | 39             | 30             | 5.00                   |
| 51000             | 29450B513JO0           | 30                          | 56           | 39             | 33             | 5.00                   |
| 56000             | 29450B563JO0           | 30                          | 56           | 39             | 33             | 5.00                   |
| 62000             | 29450B623JO0           | 30                          | 56           | 39             | 33             | 5.00                   |
| 6,000 Peak Volts  |                        |                             |              |                |                |                        |
| 18000             | 29460B183JO0           | 30                          | 51           | 36             | 22             | 4.00                   |
| 20000             | 29460B203JO0           | 30                          | 51           | 36             | 24             | 4.00                   |
| 22000             | 29460B223JO0           | 30                          | 51           | 36             | 24             | 4.00                   |
| 24000             | 29460B243JO0           | 30                          | 56           | 39             | 27             | 4.50                   |
| 27000             | 29460B273JO0           | 30                          | 56           | 39             | 27             | 4.50                   |
| 30000             | 29460B303JO0           | 30                          | 56           | 39             | 27             | 5.00                   |
| 8,000 Peak Volts  |                        |                             |              |                |                |                        |
| 12000             | 29480B123JO0           | 30                          | 43           | 30             | 20             | 4.50                   |
| 13000             | 29480B133JO0           | 30                          | 47           | 30             | 20             | 4.50                   |
| 15000             | 29480B153JO0           | 30                          | 47           | 33             | 20             | 5.00                   |
| 16000             | 29480B163JO0           | 30                          | 47           | 33             | 22             | 5.00                   |
| 10,000 Peak Volts |                        |                             |              |                |                |                        |
| 10000             | 294100B103JO0          | 30                          | 43           | 30             | 18             | 5.00                   |

# Cylindrical Types, High-Voltage Mica Capacitors

## Type 294 Ratings

| Cap<br>(pF)              | Catalog<br>Part Number | Maximum AC Current at 65 °C |              |                |                | Case<br>Height<br>(in) |
|--------------------------|------------------------|-----------------------------|--------------|----------------|----------------|------------------------|
|                          |                        | 3 MHz<br>(A)                | 1 MHz<br>(A) | 300 kHz<br>(A) | 100 kHz<br>(A) |                        |
| 11000                    | 294100B113JO0          | 30                          | 43           | 30             | 18             | 5.00                   |
| <b>12,000 Peak Volts</b> |                        |                             |              |                |                |                        |
| 8000                     | 294120B802JO0          | 30                          | 39           | 27             | 16             | 5.00                   |
| 8200                     | 294120B822JO0          | 30                          | 39           | 27             | 16             | 5.00                   |
| 9100                     | 294120B912JO0          | 30                          | 39           | 27             | 16             | 5.00                   |
| <b>15,000 Peak Volts</b> |                        |                             |              |                |                |                        |
| 4300                     | 294150B432JO0          | 27                          | 30           | 20             | 11             | 4.50                   |
| 4700                     | 294150B472JO0          | 27                          | 30           | 22             | 12             | 4.50                   |
| 5000                     | 294150B502JO0          | 27                          | 33           | 22             | 12             | 4.50                   |
| 5100                     | 294150B512JO0          | 27                          | 33           | 22             | 12             | 4.50                   |
| 5600                     | 294150B562JO0          | 27                          | 36           | 22             | 13             | 5.00                   |
| 6000                     | 294150B602JO0          | 27                          | 36           | 24             | 15             | 5.00                   |
| 6200                     | 294150B622JO0          | 27                          | 36           | 24             | 15             | 5.00                   |
| 6800                     | 294150B682JO0          | 27                          | 36           | 24             | 15             | 5.00                   |
| 7500                     | 294150B752JO0          | 30                          | 36           | 27             | 16             | 5.00                   |
| <b>20,000 Peak Volts</b> |                        |                             |              |                |                |                        |
| 2000                     | 294200B202JO0          | 22                          | 22           | 15             | 7.5            | 4.50                   |
| 2200                     | 294200B222JO0          | 22                          | 24           | 15             | 8.2            | 4.50                   |
| 2400                     | 294200B242JO0          | 22                          | 24           | 16             | 8.2            | 4.50                   |
| 2700                     | 294200B272JO0          | 22                          | 24           | 16             | 9.1            | 5.00                   |
| 3000                     | 294200B302JO0          | 24                          | 27           | 18             | 9.1            | 5.00                   |
| 3300                     | 294200B332JO0          | 24                          | 27           | 18             | 10             | 5.00                   |
| 3600                     | 294200B362JO0          | 24                          | 27           | 18             | 10             | 5.00                   |
| 3900                     | 294200B392JO0          | 24                          | 30           | 20             | 11             | 5.00                   |
| 4000                     | 294200B402JO0          | 24                          | 30           | 20             | 11             | 5.00                   |
| <b>25,000 Peak Volts</b> |                        |                             |              |                |                |                        |
| 1100                     | 294250B112JO0          | 18                          | 18           | 11             | 5.6            | 4.50                   |
| 1200                     | 294250B122JO0          | 18                          | 18           | 11             | 5.6            | 4.50                   |
| 1300                     | 294250B132JO0          | 18                          | 18           | 12             | 6.2            | 4.50                   |
| 1500                     | 294250B152JO0          | 20                          | 20           | 12             | 6.2            | 5.00                   |

| Cap<br>(pF)              | Catalog<br>Part Number | Maximum AC Current at 65 °C |              |                |                | Case<br>Height<br>(in) |
|--------------------------|------------------------|-----------------------------|--------------|----------------|----------------|------------------------|
|                          |                        | 3 MHz<br>(A)                | 1 MHz<br>(A) | 300 kHz<br>(A) | 100 kHz<br>(A) |                        |
| 1600                     | 294250B162JO0          | 20                          | 20           | 13             | 6.8            | 5.00                   |
| 1800                     | 294250B182JO0          | 20                          | 22           | 13             | 7.5            | 5.00                   |
| <b>30,000 Peak Volts</b> |                        |                             |              |                |                |                        |
| 100                      | 294300B101JO0          | 7.5                         | 5.1          | 2              | 0.7            | 4.00                   |
| 110                      | 294300B111JO0          | 8.2                         | 5.1          | 2.2            | 0.8            | 4.00                   |
| 120                      | 294300B121JO0          | 8.2                         | 5.6          | 2.4            | 1              | 4.00                   |
| 130                      | 294300B131JO0          | 9.1                         | 6.2          | 2.7            | 1.1            | 4.00                   |
| 150                      | 294300B151JO0          | 9.1                         | 6.2          | 3              | 1.3            | 4.00                   |
| 160                      | 294300B161JO0          | 9.1                         | 6.8          | 3.3            | 1.5            | 4.00                   |
| 180                      | 294300B181JO0          | 10                          | 6.8          | 3.6            | 1.6            | 4.00                   |
| 200                      | 294300B201JO0          | 10                          | 7.5          | 3.9            | 1.8            | 4.00                   |
| 220                      | 294300B221JO0          | 11                          | 7.5          | 3.9            | 2              | 4.00                   |
| 240                      | 294300B241JO0          | 11                          | 8.2          | 4.3            | 2              | 4.00                   |
| 250                      | 294300B251JO0          | 11                          | 8.2          | 4.3            | 2              | 4.00                   |
| 270                      | 294300B271JO0          | 11                          | 9.1          | 4.7            | 2.2            | 4.00                   |
| 300                      | 294300B301JO0          | 12                          | 9.1          | 5.1            | 2.4            | 4.00                   |
| 330                      | 294300B331JO0          | 12                          | 9.1          | 5.1            | 2.4            | 4.00                   |
| 360                      | 294300B361JO0          | 12                          | 10           | 5.6            | 2.7            | 4.00                   |
| 390                      | 294300B391JO0          | 13                          | 11           | 6.2            | 3              | 4.00                   |
| 430                      | 294300B431JO0          | 13                          | 11           | 6.2            | 3              | 4.00                   |
| 470                      | 294300B471JO0          | 13                          | 11           | 6.8            | 3.3            | 4.00                   |
| 500                      | 294300B501JO0          | 13                          | 12           | 6.8            | 3.3            | 4.00                   |
| 510                      | 294300B511JO0          | 13                          | 12           | 6.8            | 3.3            | 4.00                   |
| 560                      | 294300B561JO0          | 15                          | 13           | 7.5            | 3.6            | 4.00                   |
| 620                      | 294300B621JO0          | 15                          | 13           | 8.2            | 3.9            | 4.00                   |
| 680                      | 294300B681JO0          | 15                          | 13           | 8.2            | 4.3            | 4.50                   |
| 750                      | 294300B751JO0          | 16                          | 15           | 8.2            | 4.3            | 4.50                   |
| 800                      | 294300B801JO0          | 16                          | 15           | 9.1            | 4.7            | 4.50                   |
| 820                      | 294300B821JO0          | 16                          | 15           | 9.1            | 4.7            | 4.50                   |
| 910                      | 294300B911JO0          | 16                          | 15           | 10             | 5.1            | 4.50                   |
| 1000                     | 294300B102JO0          | 18                          | 16           | 10             | 5.1            | 4.50                   |

## Cylindrical Types, High-Voltage Mica Capacitors

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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