

# Mica Capacitors, Standard Dipped

Types CD10, D10, CD15, CD19, CD30, CD42, CDV19, CDV30



Stability and mica go hand-in-hand when you need to count on stable capacitance over a wide temperature range. CDE's standard dipped silvered mica capacitors are the first choice for timing and close tolerance applications. These standard types are widely available through distribution.

## Highlights

- Reel packaging available
- High temperature – up to +150 °C
- Dimensions meet EIA RS153B specification
- 100,000 V/μs dV/dt pulse capability minimum
- Non-flammable units that meet IEC 695-2-2 are available

## Specifications

|                             |                                                              |
|-----------------------------|--------------------------------------------------------------|
| Capacitance Range           | 1 pF to 91,000 pF                                            |
| Capacitance Tolerance       | ±1/2 pF (D), ±1 pF (C), ±1/2% (E), ±1% (F), ±2% (G), ±5% (J) |
| Rated Voltage               | 100 Vdc to 2500 Vdc                                          |
| Operating Temperature Range | -55 °C to +125 °C (O) -55 °C to +150 °C (P)*                 |
| Dielectric Strength Test    | 200% of rated voltage                                        |
| <b>RoHS Compliant</b>       |                                                              |

\* P temperature range available for types CD10, CD15, CD19, CD30 and CD42

## Dimensions



## Construction Details

|                   |                                                      |
|-------------------|------------------------------------------------------|
| Case Material     | Epoxy                                                |
| Terminal Material | Copper clad steel, nickle undercoat, 100% tin finish |

## Ordering Information

Order by complete part number as below. For other options, write your requirements on your purchase order or request for quotation.

## Part Numbering System (Radial-Leaded Silvered Mica Capacitors, except D10\*)



## Options Available

- Non-flammable units per IEC 695-2-2 are available for standard dipped capacitors. Specify IEC 695-2-2 on your order.
- Tape and reeling, specify per application guide.

Standard tolerance is ±1/2 pF for less than 10 pF and ±5% for 10 pF and up **\* Order type D10 using the catalog numbers shown in ratings tables.**

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## Ratings

| Cap<br>(pF) | Volts<br>(Vdc) | Catalog<br>Part Number | L<br>in (mm) | H<br>in (mm) | T<br>in (mm) | S<br>in (mm) | d<br>in (mm) |
|-------------|----------------|------------------------|--------------|--------------|--------------|--------------|--------------|
| 1           | 500            | CD10CD010DO3F          | 0.36 (9.1)   | 0.33 (8.4)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 1           | 500            | CD15CD010DO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.17 (4.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 2           | 500            | CD10CD020DO3F          | 0.36 (9.1)   | 0.33 (8.4)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 2           | 500            | CD15CD020DO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.17 (4.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 3           | 500            | CD10CD03F0DO3F         | 0.36 (9.1)   | 0.33 (8.4)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 3           | 500            | CD15CD03F0DO3F         | 0.45 (11.4)  | 0.36 (9.1)   | 0.17 (4.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 5           | 500            | CD10CD050DO3F          | 0.36 (9.1)   | 0.33 (8.4)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 5           | 500            | CD15CD050DO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.17 (4.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 5           | 1000           | CDV19CF050DO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 7           | 500            | CD10CD070DO3F          | 0.36 (9.1)   | 0.33 (8.4)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 7           | 500            | CD15CD070DO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.17 (4.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 7           | 1000           | CDV19CF070DO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 10          | 500            | CD10CD100JO3F          | 0.36 (9.1)   | 0.33 (8.4)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 10          | 500            | CD15CD100JO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.17 (4.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 10          | 1000           | CDV19CF100JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 12          | 500            | CD10CD120JO3F          | 0.36 (9.1)   | 0.33 (8.4)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 12          | 500            | CD15CD120JO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.17 (4.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 12          | 1000           | CDV19CF120JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 15          | 500            | CD10CD150JO3F          | 0.36 (9.1)   | 0.33 (8.4)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 15          | 500            | CD15CD150JO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.17 (4.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 15          | 1000           | CDV19CF150JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 18          | 500            | CD10CD180JO3F          | 0.36 (9.1)   | 0.33 (8.4)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 18          | 500            | CD15CD180JO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.17 (4.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 18          | 1000           | CDV19CF180JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 22          | 500            | CD10ED220JO3F          | 0.36 (9.1)   | 0.33 (8.4)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 22          | 500            | CD15ED220JO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.17 (4.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 22          | 1000           | CDV19EF220JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 27          | 500            | CD10ED270JO3F          | 0.37 (9.4)   | 0.33 (8.4)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 27          | 500            | CD15ED270JO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.17 (4.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 27          | 1000           | CDV19EF270JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 27          | 1500           | CDV30EH270JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 27          | 2000           | CDV30EJ270JO3F         | 0.77 (19.6)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 27          | 2500           | CDV30EK270JO3F         | 0.78 (19.8)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 33          | 500            | CD10ED330JO3F          | 0.37 (9.4)   | 0.34 (8.6)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 33          | 500            | CD15ED330JO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.17 (4.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 33          | 1000           | CDV19EF330JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 33          | 1500           | CDV30EH330JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 33          | 2000           | CDV30EJ330JO3F         | 0.77 (19.6)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 33          | 2500           | CDV30EK330JO3F         | 0.78 (19.8)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 39          | 500            | CD10ED390JO3F          | 0.37 (9.4)   | 0.34 (8.6)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 39          | 500            | CD15ED390JO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.17 (4.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 39          | 1000           | CDV19EF390JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 39          | 1500           | CDV30EH390JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 39          | 2000           | CDV30EJ390JO3F         | 0.77 (19.6)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |

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| Cap<br>(pF) | Volts<br>(Vdc) | Catalog<br>Part Number | L<br>in (mm) | H<br>in (mm) | T<br>in (mm) | S<br>in (mm) | d<br>in (mm) |
|-------------|----------------|------------------------|--------------|--------------|--------------|--------------|--------------|
| 39          | 2500           | CDV30EK390JO3F         | 0.78 (19.8)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 47          | 500            | CD10ED470JO3F          | 0.37 (9.4)   | 0.34 (8.6)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 47          | 500            | CD15ED470JO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.17 (4.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 47          | 1000           | CDV19EF470JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 47          | 1500           | CDV30EH470JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 47          | 2000           | CDV30EJ470JO3F         | 0.77 (19.6)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 47          | 2500           | CDV30EK470JO3F         | 0.78 (19.8)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 56          | 500            | CD10ED560JO3F          | 0.37 (9.4)   | 0.34 (8.6)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 56          | 500            | CD15ED560JO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.17 (4.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 56          | 1000           | CDV19EF560JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 56          | 1500           | CDV30EH560JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 56          | 2500           | CDV30EK560JO3F         | 0.78 (19.8)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 68          | 500            | CD10ED680JO3F          | 0.37 (9.4)   | 0.34 (8.6)   | 0.19 (4.8)   | 0.141 (3.6)  | 0.016 (.4)   |
| 68          | 500            | CD15ED680JO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.18 (4.6)   | 0.234 (5.9)  | 0.025 (.6)   |
| 68          | 1000           | CDV19EF680JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 68          | 1500           | CDV30EH680JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 68          | 2000           | CDV30EJ680JO3F         | 0.77 (19.6)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 68          | 2500           | CDV30EK680JO3F         | 0.78 (19.8)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 82          | 500            | CD10ED820JO3F          | 0.37 (9.4)   | 0.35 (8.9)   | 0.20 (5.1)   | 0.141 (3.6)  | 0.016 (.4)   |
| 82          | 500            | CD15ED820JO3F          | 0.45 (11.4)  | 0.36 (9.1)   | 0.18 (4.6)   | 0.234 (5.9)  | 0.025 (.6)   |
| 82          | 1000           | CDV19EF820JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 82          | 1500           | CDV30EH820JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 82          | 2000           | CDV30EJ820JO3F         | 0.77 (19.6)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 82          | 2500           | CDV30EK820JO3F         | 0.78 (19.8)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 100         | 500            | CD10FD101JO3F          | 0.37 (9.4)   | 0.35 (8.9)   | 0.20 (5.1)   | 0.141 (3.6)  | 0.016 (.4)   |
| 100         | 500            | CD15FD101JO3F          | 0.46 (11.7)  | 0.36 (9.1)   | 0.18 (4.6)   | 0.234 (5.9)  | 0.025 (.6)   |
| 100         | 500            | CD19FD101JO3F          | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 100         | 1000           | CDV19FF101JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 100         | 1500           | CDV30FH101JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 100         | 2000           | CDV30FJ101JO3F         | 0.77 (19.6)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 100         | 2500           | CDV30FK101JO3F         | 0.78 (19.8)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 120         | 500            | CD10FD121JO3F          | 0.38 (9.7)   | 0.35 (8.9)   | 0.20 (5.1)   | 0.141 (3.6)  | 0.016 (.4)   |
| 120         | 500            | CD15FD121JO3F          | 0.46 (11.7)  | 0.37 (9.4)   | 0.18 (4.6)   | 0.234 (5.9)  | 0.025 (.6)   |
| 120         | 500            | CD19FD121JO3F          | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 120         | 1000           | CDV19FF121JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 120         | 1500           | CDV30FH121JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 120         | 2000           | CDV30FJ121JO3F         | 0.77 (19.6)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 120         | 2500           | CDV30FK121JO3F         | 0.78 (19.8)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 150         | 500            | CD10FD151JO3F          | 0.38 (9.7)   | 0.36 (9.1)   | 0.21 (5.3)   | 0.141 (3.6)  | 0.016 (.4)   |
| 150         | 500            | CD15FD151JO3F          | 0.46 (11.7)  | 0.37 (9.4)   | 0.19 (4.8)   | 0.234 (5.9)  | 0.025 (.6)   |
| 150         | 500            | CD19FD151JO3F          | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 150         | 1000           | CDV19FF151JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 150         | 1500           | CDV30FH151JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 150         | 2000           | CDV30FJ151JO3F         | 0.77 (19.6)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |

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| Cap<br>(pF) | Volts<br>(Vdc) | Catalog<br>Part Number | L<br>in (mm) | H<br>in (mm) | T<br>in (mm) | S<br>in (mm) | d<br>in (mm) |
|-------------|----------------|------------------------|--------------|--------------|--------------|--------------|--------------|
| 180         | 500            | CD10FD181JO3F          | 0.39 (9.9)   | 0.37 (9.4)   | 0.21 (5.3)   | 0.141 (3.6)  | 0.016 (.4)   |
| 180         | 500            | CD15FD181JO3F          | 0.46 (11.7)  | 0.37 (9.4)   | 0.19 (4.8)   | 0.234 (5.9)  | 0.025 (.6)   |
| 180         | 500            | CD19FD181JO3F          | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 180         | 1000           | CDV19FF181JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 180         | 1500           | CDV30FH181JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 180         | 2000           | CDV30FJ181JO3F         | 0.77 (19.6)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 220         | 500            | CD10FD221JO3F          | 0.39 (9.9)   | 0.38 (9.7)   | 0.22 (5.6)   | 0.141 (3.6)  | 0.016 (.4)   |
| 220         | 500            | CD15FD221JO3F          | 0.46 (11.7)  | 0.38 (9.7)   | 0.20 (5.1)   | 0.234 (5.9)  | 0.025 (.6)   |
| 220         | 500            | CD19FD221JO3F          | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 220         | 1000           | CDV19FF221JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 220         | 1500           | CDV30FH221JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 220         | 2000           | CDV30FJ221JO3F         | 0.77 (19.6)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 270         | 300            | CD10FC271JO3F          | 0.39 (9.9)   | 0.38 (9.7)   | 0.22 (5.6)   | 0.141 (3.6)  | 0.016 (.4)   |
| 270         | 500            | CD19FD271JO3F          | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 270         | 500            | D105F271JO3F           | 0.39 (9.9)   | 0.38 (9.7)   | 0.22 (5.6)   | 0.141 (3.6)  | 0.016 (.4)   |
| 270         | 500            | CD15FD271JO3F          | 0.47 (11.9)  | 0.39 (9.9)   | 0.21 (5.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 270         | 1000           | CDV19FF271JO3F         | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 270         | 1500           | CDV30FH271JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 270         | 2000           | CDV30FJ271JO3F         | 0.77 (19.6)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 330         | 100            | CD10FA331JO3F          | 0.39 (9.9)   | 0.37 (9.4)   | 0.22 (5.6)   | 0.141 (3.6)  | 0.016 (.4)   |
| 330         | 500            | D105F331JO3F           | 0.39 (9.9)   | 0.38 (9.7)   | 0.22 (5.6)   | 0.141 (3.6)  | 0.016 (.4)   |
| 330         | 500            | CD15FD331JO3F          | 0.47 (11.9)  | 0.39 (9.9)   | 0.21 (5.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 330         | 500            | CD19FD331JO3F          | 0.64 (16.3)  | 0.50 (12.7)  | 0.19 (4.8)   | 0.344 (8.7)  | 0.032 (.8)   |
| 330         | 2000           | CDV30FJ331JO3F         | 0.77 (19.6)  | 0.86 (21.8)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 330         | 2500           | CDV30FK331JO3F         | 0.78 (19.8)  | 0.87 (22.1)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 390         | 100            | CD10FA391JO3F          | 0.39 (9.9)   | 0.38 (9.7)   | 0.22 (5.6)   | 0.141 (3.6)  | 0.016 (.4)   |
| 390         | 500            | D105F391JO3F           | 0.39 (9.9)   | 0.38 (9.7)   | 0.22 (5.6)   | 0.141 (3.6)  | 0.016 (.4)   |
| 390         | 500            | CD15FD391JO3F          | 0.47 (11.9)  | 0.39 (9.9)   | 0.21 (5.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 390         | 500            | CD19FD391JO3F          | 0.64 (16.3)  | 0.51 (13.0)  | 0.20 (5.1)   | 0.344 (8.7)  | 0.032 (.8)   |
| 390         | 1000           | CDV19FF391JO3F         | 0.65 (16.5)  | 0.51 (13.0)  | 0.20 (5.1)   | 0.344 (8.7)  | 0.032 (.8)   |
| 390         | 1500           | CDV30FH391JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 470         | 500            | D105F471JO3F           | 0.39 (9.9)   | 0.38 (9.7)   | 0.22 (5.6)   | 0.141 (3.6)  | 0.016 (.4)   |
| 470         | 500            | CD15FD471JO3F          | 0.47 (11.9)  | 0.40 (10.2)  | 0.22 (5.6)   | 0.234 (5.9)  | 0.025 (.6)   |
| 470         | 500            | CD19FD471JO3F          | 0.64 (16.3)  | 0.51 (13.0)  | 0.20 (5.1)   | 0.344 (8.7)  | 0.032 (.8)   |
| 470         | 1500           | CDV30FH471JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 470         | 2000           | CDV30FJ471JO3F         | 0.77 (19.6)  | 0.87 (22.1)  | 0.26 (6.6)   | 0.438 (11.1) | 0.040 (1.0)  |
| 470         | 2500           | CDV30FK471JO3F         | 0.78 (19.8)  | 0.87 (22.1)  | 0.27 (6.9)   | 0.438 (11.1) | 0.040 (1.0)  |
| 560         | 300            | D103F561JO3F           | 0.39 (9.9)   | 0.38 (9.7)   | 0.22 (5.6)   | 0.141 (3.6)  | 0.016 (.4)   |
| 560         | 300            | CD15FC561JO3F          | 0.46 (11.7)  | 0.38 (9.7)   | 0.21 (5.3)   | 0.234 (5.9)  | 0.025 (.6)   |
| 560         | 500            | CD19FD561JO3F          | 0.65 (16.5)  | 0.51 (13.0)  | 0.20 (5.1)   | 0.344 (8.7)  | 0.032 (.8)   |
| 560         | 1000           | CDV19FF561JO3F         | 0.65 (16.5)  | 0.51 (13.0)  | 0.21 (5.3)   | 0.344 (8.7)  | 0.032 (.8)   |
| 560         | 1500           | CDV30FH561JO3F         | 0.77 (19.6)  | 0.85 (21.6)  | 0.25 (6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 560         | 2000           | CDV30FJ561JO3F         | 0.77 (19.6)  | 0.87 (22.1)  | 0.26 (6.6)   | 0.438 (11.1) | 0.040 (1.0)  |
| 560         | 2500           | CDV30FK561JO3F         | 0.78 (19.8)  | 0.87 (22.1)  | 0.27 (6.9)   | 0.438 (11.1) | 0.040 (1.0)  |
| 680         | 300            | D103F681JO3F           | 0.39 (9.9)   | 0.38 (9.7)   | 0.22 (5.6)   | 0.141 (3.6)  | 0.016 (.4)   |

# Mica Capacitors, Standard Dipped

## Types CD10, D10, CD15, CD19, CD30, CD42, CDV19, CDV30

| Cap (pF) | Volts (Vdc) | Catalog Part Number | L in (mm)   | H in (mm)   | T in (mm)  | S in (mm)    | d in (mm)   |
|----------|-------------|---------------------|-------------|-------------|------------|--------------|-------------|
| 680      | 300         | CD15FC681JO3F       | 0.47 (11.9) | 0.39 (9.9)  | 0.21 (5.3) | 0.234 (5.9)  | 0.025 (.6)  |
| 680      | 500         | CD19FD681JO3F       | 0.65 (16.5) | 0.51 (13.0) | 0.21 (5.3) | 0.344 (8.7)  | 0.032 (.8)  |
| 680      | 1000        | CDV19FF681JO3F      | 0.66 (16.8) | 0.52 (13.2) | 0.22 (5.6) | 0.344 (8.7)  | 0.032 (.8)  |
| 680      | 1500        | CDV30FH681JO3F      | 0.77 (19.6) | 0.85 (21.6) | 0.25 (6.4) | 0.438 (11.1) | 0.040 (1.0) |
| 680      | 2000        | CDV30FJ681JO3F      | 0.77 (19.6) | 0.87 (22.1) | 0.26 (6.6) | 0.438 (11.1) | 0.040 (1.0) |
| 680      | 2500        | CDV30FK681JO3F      | 0.78 (19.8) | 0.87 (22.1) | 0.27 (6.9) | 0.438 (11.1) | 0.040 (1.0) |
| 820      | 300         | D103F821JO3F        | 0.39 (9.9)  | 0.38 (9.7)  | 0.22 (5.6) | 0.141 (3.6)  | 0.016 (.4)  |
| 820      | 300         | CD15FC821JO3F       | 0.47 (11.9) | 0.39 (9.9)  | 0.21 (5.3) | 0.234 (5.9)  | 0.025 (.6)  |
| 820      | 500         | CD19FD821JO3F       | 0.65 (16.5) | 0.51 (13.0) | 0.21 (5.3) | 0.344 (8.7)  | 0.032 (.8)  |
| 820      | 1000        | CDV19FF821JO3F      | 0.66 (16.8) | 0.53 (13.5) | 0.23 (5.8) | 0.344 (8.7)  | 0.032 (.8)  |
| 820      | 1500        | CDV30FH821JO3F      | 0.77 (19.6) | 0.85 (21.6) | 0.25 (6.4) | 0.438 (11.1) | 0.040 (1.0) |
| 820      | 2000        | CDV30FJ821JO3F      | 0.77 (19.6) | 0.87 (22.1) | 0.26 (6.6) | 0.438 (11.1) | 0.040 (1.0) |
| 820      | 2500        | CDV30FK821JO3F      | 0.78 (19.8) | 0.87 (22.1) | 0.27 (6.9) | 0.438 (11.1) | 0.040 (1.0) |
| 1000     | 100         | D101F102JO3F        | 0.39 (9.9)  | 0.38 (9.7)  | 0.22 (5.6) | 0.141 (3.6)  | 0.016 (.4)  |
| 1000     | 100         | CD15FA102JO3F       | 0.48 (12.2) | 0.40 (10.2) | 0.23 (5.8) | 0.234 (5.9)  | 0.025 (.6)  |
| 1000     | 500         | CD19FD102JO3F       | 0.65 (16.5) | 0.52 (13.2) | 0.22 (5.6) | 0.344 (8.7)  | 0.032 (.8)  |
| 1000     | 1000        | CDV19FF102JO3F      | 0.67 (17.0) | 0.53 (13.5) | 0.25 (6.4) | 0.344 (97)   | 0.032 (.8)  |
| 1000     | 1500        | CDV30FH102JO3F      | 0.77 (19.6) | 0.86 (21.8) | 0.26 (6.6) | 0.438 (11.1) | 0.040 (1.0) |
| 1000     | 2000        | CDV30FJ102JO3F      | 0.78 (19.8) | 0.88 (22.4) | 0.28 (7.1) | 0.438 (11.1) | 0.040 (1.0) |
| 1000     | 2500        | CDV30FK102JO3F      | 0.79 (20.1) | 0.88 (22.4) | 0.31 (7.9) | 0.438 (11.1) | 0.040 (1.0) |
| 1200     | 100         | D101F122JO3F        | 0.39 (9.9)  | 0.38 (9.7)  | 0.22 (5.6) | 0.141 (3.6)  | 0.016 (.4)  |
| 1200     | 100         | CD15FA122JO3F       | 0.49 (12.4) | 0.42 (10.7) | 0.24 (6.1) | 0.234 (5.9)  | 0.025 (.6)  |
| 1200     | 500         | CD19FD122JO3F       | 0.66 (16.8) | 0.52 (13.2) | 0.22 (5.6) | 0.344 (8.7)  | 0.032 (.8)  |
| 1200     | 1500        | CDV30FH122JO3F      | 0.77 (19.6) | 0.86 (21.8) | 0.26 (6.6) | 0.438 (11.1) | 0.040 (1.0) |
| 1200     | 2000        | CDV30FJ122JO3F      | 0.78 (19.8) | 0.88 (22.4) | 0.28 (7.1) | 0.438 (11.1) | 0.040 (1.0) |
| 1200     | 2500        | CDV30FK122JO3F      | 0.79 (20.1) | 0.88 (22.4) | 0.31 (7.9) | 0.438 (11.1) | 0.040 (1.0) |
| 1500     | 100         | D101F152JO3F        | 0.39 (9.9)  | 0.38 (9.7)  | 0.22 (5.6) | 0.141 (3.6)  | 0.016 (.4)  |
| 1500     | 100         | CD15FA152JO3F       | 0.50 (12.7) | 0.43 (10.9) | 0.25 (6.4) | 0.234 (5.9)  | 0.025 (.6)  |
| 1500     | 500         | CD19FD152JO3F       | 0.66 (16.8) | 0.52 (13.2) | 0.23 (5.8) | 0.344 (8.7)  | 0.032 (.8)  |
| 1500     | 1000        | CDV19FF152JO3F      | 0.68 (17.3) | 0.54 (13.7) | 0.27 (6.9) | 0.344 (8.7)  | 0.032 (.8)  |
| 1500     | 1500        | CDV30FH152JO3F      | 0.78 (19.8) | 0.87 (22.1) | 0.28 (7.1) | 0.438 (11.1) | 0.040 (1.0) |
| 1500     | 2000        | CDV30FJ152JO3F      | 0.79 (20.1) | 0.89 (22.6) | 0.32 (8.1) | 0.438 (11.1) | 0.040 (1.0) |
| 1500     | 2500        | CDV30FK152JO3F      | 0.80 (20.3) | 0.89 (22.6) | 0.35 (8.9) | 0.438 (11.1) | 0.040 (1.0) |
| 1800     | 500         | CD19FD182JO3F       | 0.67 (17.0) | 0.53 (13.5) | 0.24 (6.1) | 0.344 (8.7)  | 0.032 (.8)  |
| 1800     | 1000        | CDV19FF182JO3F      | 0.68 (17.3) | 0.55 (14.0) | 0.29 (7.4) | 0.344 (8.7)  | 0.032 (.8)  |
| 1800     | 1500        | CDV30FH182JO3F      | 0.78 (19.8) | 0.87 (22.1) | 0.29 (7.4) | 0.438 (11.1) | 0.040 (1.0) |
| 1800     | 2000        | CDV30FJ182JO3F      | 0.79 (20.1) | 0.89 (22.6) | 0.34 (8.6) | 0.438 (11.1) | 0.040 (1.0) |
| 1800     | 2500        | CDV30FK182JO3F      | 0.81 (20.6) | 0.90 (22.9) | 0.37 (9.4) | 0.438 (11.1) | 0.040 (1.0) |
| 2200     | 500         | CD19FD222JO3F       | 0.67 (17.0) | 0.53 (13.5) | 0.25 (6.4) | 0.344 (8.7)  | 0.032 (.8)  |
| 2200     | 500         | CD30FD222JO3F       | 0.77 (19.6) | 0.85 (21.6) | 0.25 (6.4) | 0.438 (11.1) | 0.040 (1.0) |
| 2200     | 1000        | CDV19FF222JO3F      | 0.69 (17.5) | 0.56 (14.2) | 0.31 (7.9) | 0.344 (8.7)  | 0.032 (.8)  |
| 2200     | 1500        | CDV30FH222JO3F      | 0.79 (20.1) | 0.88 (22.4) | 0.31 (7.9) | 0.438 (11.1) | 0.040 (1.0) |
| 2700     | 500         | CD19FD272JO3F       | 0.68 (17.3) | 0.54 (13.7) | 0.27 (6.9) | 0.344 (8.7)  | 0.032 (.8)  |
| 2700     | 500         | CD30FD272JO3F       | 0.77 (19.6) | 0.85 (21.6) | 0.25 (6.4) | 0.438 (11.1) | 0.040 (1.0) |
| 2700     | 1000        | CDV19FF272JO3F      | 0.70 (17.8) | 0.57 (14.5) | 0.34 (8.6) | 0.344 (8.7)  | 0.032 (.8)  |

# Mica Capacitors, Standard Dipped

## Types CD10, D10, CD15, CD19, CD30, CD42, CDV19, CDV30

| Cap<br>(pF) | Volts<br>(Vdc) | Catalog<br>Part Number | L<br>in (mm) | H<br>in (mm) | T<br>in (mm) | S<br>in (mm) | d<br>in (mm) |
|-------------|----------------|------------------------|--------------|--------------|--------------|--------------|--------------|
| 2700        | 1500           | CDV30FH272JO3F         | 0.79 (20.1)  | 0.88 (22.4)  | 0.33( 8.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 2700        | 2000           | CDV30FJ272JO3F         | 0.81 (20.6)  | 0.91 (23.1)  | 0.40(10.2)   | 0.438 (11.1) | 0.040 (1.0)  |
| 2700        | 2500           | CDV30FK272JO3F         | 0.83 (21.1)  | 0.92 (23.4)  | 0.45(11.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 3300        | 500            | CD19FD332JO3F          | 0.68 (17.3)  | 0.55 (14.0)  | 0.29( 7.4)   | 0.344 ( 8.7) | 0.032 ( .8)  |
| 3300        | 500            | CD30FD332JO3F          | 0.77 (19.6)  | 0.86 (21.8)  | 0.25( 6.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 3300        | 1000           | CDV19FF332JO3F         | 0.72 (18.3)  | 0.59 (15.0)  | 0.38( 9.7)   | 0.344 ( 8.7) | 0.032 ( .8)  |
| 3300        | 1500           | CDV30FH332JO3F         | 0.80 (20.3)  | 0.89 (22.6)  | 0.35( 8.9)   | 0.438 (11.1) | 0.040 (1.0)  |
| 3300        | 2000           | CDV30FJ332JO3F         | 0.82 (20.8)  | 0.92 (23.4)  | 0.44(11.2)   | 0.438 (11.1) | 0.040 (1.0)  |
| 3900        | 500            | CD19FD392JO3F          | 0.69 (17.5)  | 0.56 (14.2)  | 0.31( 7.9)   | 0.344 ( 8.7) | 0.032 ( .8)  |
| 3900        | 500            | CD30FD392JO3F          | 0.77 (19.6)  | 0.86 (21.8)  | 0.26( 6.6)   | 0.438 (11.1) | 0.040 (1.0)  |
| 3900        | 1000           | CDV19FF392JO3F         | 0.74 (18.8)  | 0.61 (15.5)  | 0.42(10.7)   | 0.344 ( 8.7) | 0.032 ( .8)  |
| 3900        | 1500           | CDV30FH392JO3F         | 0.80 (20.3)  | 0.89 (22.6)  | 0.36( 9.1)   | 0.438 (11.1) | 0.040 (1.0)  |
| 3900        | 2000           | CDV30FJ392JO3F         | 0.83 (21.1)  | 0.93 (23.6)  | 0.46(11.7)   | 0.438 (11.1) | 0.040 (1.0)  |
| 4700        | 500            | CD19FD472JO3F          | 0.70 (17.8)  | 0.58 (14.7)  | 0.35( 8.9)   | 0.344 ( 8.7) | 0.032 ( .8)  |
| 4700        | 500            | CD30FD472JO3F          | 0.78 (19.8)  | 0.86 (21.8)  | 0.27( 6.9)   | 0.438 (11.1) | 0.040 (1.0)  |
| 4700        | 1000           | CDV19FF472JO3F         | 0.76 (19.3)  | 0.63 (16.0)  | 0.46(11.7)   | 0.344 ( 8.7) | 0.032 ( .8)  |
| 4700        | 1500           | CDV30FH472JO3F         | 0.81 (20.6)  | 0.90 (22.9)  | 0.38( 9.7)   | 0.438 (11.1) | 0.040 (1.0)  |
| 5600        | 300            | CD19FC562JO3F          | 0.68 (17.3)  | 0.56 (14.2)  | 0.31( 7.9)   | 0.344 ( 8.7) | 0.032 ( .8)  |
| 5600        | 500            | CD30FD562JO3F          | 0.78 (19.8)  | 0.87 (22.1)  | 0.29( 7.4)   | 0.438 (11.1) | 0.040 (1.0)  |
| 5600        | 1000           | CDV30FF562JO3F         | 0.80 (20.3)  | 0.89 (22.6)  | 0.34( 8.6)   | 0.438 (11.1) | 0.040 (1.0)  |
| 5600        | 1500           | CDV30FH562JO3F         | 0.82 (20.8)  | 0.91 (23.1)  | 0.40(10.2)   | 0.438 (11.1) | 0.040 (1.0)  |
| 6800        | 300            | CD19FC682JO3F          | 0.69 (17.5)  | 0.57 (14.5)  | 0.33( 8.4)   | 0.344 ( 8.7) | 0.032 ( .8)  |
| 6800        | 500            | CD30FD682JO3F          | 0.78 (19.8)  | 0.88 (22.4)  | 0.30( 7.6)   | 0.438 (11.1) | 0.040 (1.0)  |
| 6800        | 1000           | CDV30FF682JO3F         | 0.80 (20.3)  | 0.89 (22.6)  | 0.36( 9.1)   | 0.438 (11.1) | 0.040 (1.0)  |
| 6800        | 1500           | CDV30FH682JO3F         | 0.83 (21.1)  | 0.92 (23.4)  | 0.42(10.7)   | 0.438 (11.1) | 0.040 (1.0)  |
| 8200        | 100            | CD19FA822JO3F          | 0.70 (17.8)  | 0.58 (14.7)  | 0.35( 8.9)   | 0.344 ( 8.7) | 0.032 ( .8)  |
| 8200        | 500            | CD30FD822JO3F          | 0.79 (20.1)  | 0.88 (22.4)  | 0.32( 8.1)   | 0.438 (11.1) | 0.040 (1.0)  |
| 8200        | 1000           | CDV30FF822JO3F         | 0.81 (20.6)  | 0.90 (22.9)  | 0.39( 9.9)   | 0.438 (11.1) | 0.040 (1.0)  |
| 8200        | 1500           | CDV30FH822JO3F         | 0.84 (21.3)  | 0.93 (23.6)  | 0.46(11.7)   | 0.438 (11.1) | 0.040 (1.0)  |
| 10000       | 100            | CD19FA103JO3F          | 0.72 (18.3)  | 0.60 (15.2)  | 0.37( 9.4)   | 0.344 ( 8.7) | 0.032 ( .8)  |
| 10000       | 500            | CD30FD103JO3F          | 0.80 (20.3)  | 0.89 (22.6)  | 0.34( 8.6)   | 0.438 (11.1) | 0.040 (1.0)  |
| 10000       | 1000           | CDV30FF103JO3F         | 0.82 (20.8)  | 0.91 (23.1)  | 0.42(10.7)   | 0.438 (11.1) | 0.040 (1.0)  |
| 12000       | 500            | CD30FD123JO3F          | 0.80 (20.3)  | 0.89 (22.6)  | 0.36( 9.1)   | 0.438 (11.1) | 0.040 (1.0)  |
| 12000       | 1000           | CDV30FF123JO3F         | 0.83 (21.1)  | 0.92 (23.4)  | 0.46(11.7)   | 0.438 (11.1) | 0.040 (1.0)  |
| 15000       | 500            | CD30FD153JO3F          | 0.81 (20.6)  | 0.90 (22.9)  | 0.39( 9.9)   | 0.438 (11.1) | 0.040 (1.0)  |
| 18000       | 500            | CD30FD183JO3F          | 0.82 (20.8)  | 0.91 (23.1)  | 0.43(10.9)   | 0.438 (11.1) | 0.040 (1.0)  |
| 22000       | 500            | CD30FD223JO3F          | 0.83 (21.1)  | 0.93 (23.6)  | 0.46(11.7)   | 0.438 (11.1) | 0.040 (1.0)  |
| 22000       | 500            | CD42FD223JO3F          | 1.42 (36.1)  | 0.88 (22.4)  | 0.31( 7.9)   | 1.063 (27.0) | 0.040 (1.0)  |
| 33000       | 100            | CD30FA333JO3F          | 0.83 (21.1)  | 0.91 (23.1)  | 0.44(11.2)   | 0.438 (11.1) | 0.040 (1.0)  |
| 33000       | 500            | CD42FD333JO3F          | 1.44 (36.6)  | 0.89 (22.6)  | 0.36( 9.1)   | 1.063 (27.0) | 0.040 (1.0)  |
| 39000       | 500            | CD42FD393JO3F          | 1.45 (36.8)  | 0.90 (22.9)  | 0.40(10.2)   | 1.063 (27.0) | 0.040 (1.0)  |
| 47000       | 500            | CD42FD473JO3F          | 1.47 (37.3)  | 0.91 (23.1)  | 0.45(11.4)   | 1.063 (27.0) | 0.040 (1.0)  |
| 68000       | 300            | CD42FC683JO3F          | 1.48 (37.6)  | 0.92 (23.4)  | 0.47(11.9)   | 1.063 (27.0) | 0.040 (1.0)  |
| 82000       | 100            | CD42FA823JO3F          | 1.48 (37.6)  | 0.92 (23.4)  | 0.46(11.7)   | 1.063 (27.0) | 0.040 (1.0)  |
| 91000       | 100            | CD42FA913JO3F          | 1.50 (38.1)  | 0.94 (23.9)  | 0.50(12.7)   | 1.063 (27.0) | 0.040 (1.0)  |

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».



## JONHON

«**JONHON**» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«**FORSTAR**» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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