

## Lower Voltage Ceramic Singlelayer DC Disc Capacitors 1 kV<sub>DC</sub> to 3 kV<sub>DC</sub> Low Dissipation Factor


**RoHS**  
COMPLIANT

**FEATURES**

- Low losses
- High stability
- Low DF minimizes self heating at HF
- Ideal for high switching to 100 kHz
- Radial leads
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)

**APPLICATIONS**

- SMPS
- HF ballast
- Snubber and HV circuits

**DESIGN**

The capacitors consist of a ceramic disc of which both sides are silver-plated. Connection leads are made of tinned copper having diameters of 0.022" (0.51 mm) or 0.025" (0.64 mm).

The capacitors may be supplied with radial kinked or straight leads having lead spacing of 0.250" (6.35 mm) or 0.375" (9.5 mm).

The standard tolerances are  $\pm 5\%$ ,  $\pm 10\%$ .

Coating is made of flammable retardant epoxy resin in accordance with "UL 94 V-0".

**CAPACITANCE RANGE**

10 pF to 6800 pF

**RATED VOLTAGE**

1000 V<sub>DC</sub> (500 V<sub>RMS</sub>)  
 2000 V<sub>DC</sub> (1000 V<sub>RMS</sub>)  
 3000 V<sub>DC</sub> (1500 V<sub>RMS</sub>)

**DIELECTRIC STRENGTH BETWEEN LEADS**

Component test:

1000 V<sub>DC</sub>      2500 V<sub>DC</sub>, 2 s  
 2000 V<sub>DC</sub>      4000 V<sub>DC</sub>, 2 s  
 3000 V<sub>DC</sub>      6000 V<sub>DC</sub>, 2 s

**CERAMIC DIELECTRIC**

C0G, N1500, N2000, N2200, N2500, N2800 (Class 1)

| QUICK REFERENCE DATA       |  |      |      |
|----------------------------|--|------|------|
| DESCRIPTION                | VALUE                                  |      |      |
| Ceramic Class              | 1                                      |      |      |
| Ceramic Dielectric         | C0G, N1500, N2000, N2200, N2500, N2800 |      |      |
| Voltage (V <sub>DC</sub> ) | 1000                                   | 2000 | 3000 |
| Min. Capacitance (pF)      | 10                                     | 10   | 10   |
| Max. Capacitance (pF)      | 6800                                   | 6800 | 4700 |
| Mounting                   | Radial                                 |      |      |

**INSULATION RESISTANCE**

Min. 50 000 M $\Omega$

**TOLERANCE ON CAPACITANCE**

$\pm 5\%$ ,  $\pm 10\%$

**DISSIPATION FACTOR**

0.1 % max. at 1 kHz; 1 V

**CATEGORY TEMPERATURE RANGE**

-55 °C to +125 °C

**CLIMATIC CATEGORY ACC. TO EN 60068-1**

55/125/21

**OPERATING TEMPERATURE RANGE**

-55 °C to +105 °C



| <b>ORDERING INFORMATION, CERAMIC 1 kV<sub>DC</sub> LOW DISSIPATION FACTOR</b> |             |  |   |   |  |           |              |      |                  |             |             |
|---|-------------|--|---|---|--|-----------|--------------|------|------------------|-------------|-------------|
| C<br>(pF)   | TOL.<br>(%) | D <sub>max.</sub><br>DIAMETER<br>INCH (mm) | T <sub>max.</sub><br>THICKNESS<br>INCH (mm) | LS<br>LEAD SPACE<br>INCH (mm)<br>± 1 mm | LO<br>LEAD OFFSET<br>INCH (mm)<br>± 0.5 mm | WIRE SIZE |              | FIG. | ORDERING<br>CODE |             |             |
|   |             |  |   |   |  | AWG       | INCH (mm)    |      |                  |             |             |
| <b>C0G (NPO)</b>  |             |  |   |   |  |           |              |      |                  |             |             |
| 10  | ± 5         | 0.250 (6.4)                                | 0.156 (4.0)                                 | 0.250 (6.4)                             | 0.043 (1.1)                                | 22        | 0.025 (0.64) | 1    | 561R1DF0Q10      |             |             |
| 12  |             |  |   |   | 0.051 (1.3)                                |           |              |      | 561R1DF0Q12      |             |             |
| <b>N1500</b>  |             |  |   |   |  |           |              |      |                  |             |             |
| 22  | ± 5         | 0.250 (6.4)                                | 0.156 (4.0)                                 | 0.250 (6.4)                             | 0.043 (1.1)                                | 22        | 0.025 (0.64) | 1    | 561R1DF0Q22      |             |             |
| 47  |             |  |   |   | 0.071 (1.8)                                |           |              |      | 561R1DF0Q47      |             |             |
| 56  |             |  |   |   | 0.055 (1.4)                                |           |              |      | 561R1DF0Q56      |             |             |
| 68  |             |  |   |   | 0.059 (1.5)                                |           |              |      | 561R1DF0Q68      |             |             |
| 82  |             |  |   |   | 0.047 (1.2)                                |           |              |      | 561R1DF0Q82      |             |             |
| <b>N2200</b>  |             |  |   |   |  |           |              |      |                  |             |             |
| 33  | ± 10        | 0.250 (6.4)                                | 0.156 (4.0)                                 | 0.250 (6.4)                             | 0.043 (1.1)                                | 22        | 0.025 (0.64) | 1    | 561R1DF0Q33      |             |             |
| <b>N2000</b>  |             |  |   |   |  |           |              |      |                  |             |             |
| 100   | ± 10        | 0.250 (6.4)                                | 0.156 (4.0)                                 | 0.250 (6.4)                             | 0.059 (1.5)                                | 22        | 0.025 (0.64) | 1    | 561R1DF0T10      |             |             |
| 120   |             |  |   |   | 0.055 (1.4)                                |           |              |      | 561R1DF0T12      |             |             |
| 150   |             |  |   |   | 0.043 (1.1)                                |           |              |      | 561R1DF0T15      |             |             |
| 180   |             |  |   |   | 0.043 (1.1)                                |           |              |      | 561R1DF0T18      |             |             |
| <b>N2500</b>  |             |  |   |   |  |           |              |      |                  |             |             |
| 220   | ± 10        | 0.250 (6.4)                                | 0.156 (4.0)                                 | 0.250 (6.4)                             | 0.059 (1.5)                                | 22        | 0.025 (0.64) | 1    | 561R1DF0T22      |             |             |
| 270   |             |  |   |   | 0.043 (1.1)                                |           |              |      | 561R1DF0T27      |             |             |
| <b>N2800</b>  |             |  |   |   |  |           |              |      |                  |             |             |
| 330   | ± 10        | 0.250 (6.4)                                | 0.156 (4.0)                                 | 0.250 (6.4)                             | 0.047 (1.2)                                | 22        | 0.025 (0.64) | 1    | 561R1DF0T33      |             |             |
| 390   |             |  |   |   | 0.047 (1.2)                                |           |              |      | 561R1DF0T39      |             |             |
| 470   |             |  |   |   | 0.290 (7.4)                                |           |              |      | 0.059 (1.5)      | 561R1DF0T47 |             |
| 560   |             |  |   |   |  |           |              |      | 0.055 (1.4)      | 561R1DF0T56 |             |
| 680   |             |  |   |   |  |           |              |      | 0.047 (1.2)      | 561R1DF0T68 |             |
| 820   |             |  |   |   |  |           |              |      | 0.043 (1.1)      | 561R1DF0T82 |             |
| 1000  |             | 0.370 (9.4)                                |   |   | 0.055 (1.4)                                |           |              |      | 561R1DF0D10      |             |             |
| 1200  |             |  |   |   | 0.047 (1.2)                                |           |              |      | 561R1DF0D12      |             |             |
| 1500  |             |  |   |   | 0.047 (1.2)                                |           |              |      | 561R1DF0D15      |             |             |
| 1800  |             |  |   |   | 0.051 (1.3)                                |           |              |      | 561R1DF0D18      |             |             |
| 2200  |             |  |   |   | 0.047 (1.2)                                |           |              |      | 561R1DF0D22      |             |             |
| 2700  |             |  |   |   | 0.047 (1.2)                                |           |              |      | 561R1DF0D27      |             |             |
| 3300  |             | 0.530 (13.5)                               |   |   | 0.047 (1.2)                                |           |              |      | 561R1DF0D33      |             |             |
| 3900  |             | 0.560 (14.2)                               |   |   | 0.156 (4.0)                                |           |              |      | 0.375 (9.5)      | 0.047 (1.2) | 561R1DF0D39 |
| 4700  |             |  |   |   |  |           |              |      |                  | 0.047 (1.2) | 561R1DF0D47 |
| 5600  |             |  |   |   |  |           |              |      |                  | 0.047 (1.2) | 561R1DF0D56 |
| 6800  | 0.047 (1.2) |  | 561R1DF0D68                                 |   |  |           |              |      |                  |             |             |

**Note**

- Alternate lead spacings of 5 mm, 7.5 mm or 10 mm are available on request.



| ORDERING INFORMATION, CERAMIC 2 kV <sub>DC</sub> LOW DISSIPATION FACTOR |             |  |   |   |  |           |              |      |                  |
|---|-------------|--|---|---|--|-----------|--------------|------|------------------|
| C<br>(pF)   | TOL.<br>(%) | D <sub>max.</sub><br>DIAMETER<br>INCH (mm) | T <sub>max.</sub><br>THICKNESS<br>INCH (mm) | LS<br>LEAD SPACE<br>INCH (mm)<br>± 1 mm | LO<br>LEAD OFFSET<br>INCH (mm)<br>± 0.5 mm | WIRE SIZE |              | FIG. | ORDERING<br>CODE |
|   |             |  |   |   |  | AWG       | INCH (mm)    |      |                  |
| <b>N1500</b>  |             |  |   |   |  |           |              |      |                  |
| 33  | ± 5         | 0.290 (7.4)                                | 0.195 (5.0)                                 | 0.250 (6.4)                             | 0.098 (2.5)                                | 20        | 0.032 (0.81) | 1    | 564R2DF0Q33      |
| 39  |             |  | 0.180 (4.6)                                 |   | 0.083 (2.1)                                |           |              |      | 564R2DF0Q39      |
| 47  |             |  | 0.170 (4.3)                                 |   | 0.071 (1.8)                                |           |              |      | 564R2DF0Q47      |
| <b>N2000</b>  |             |  |   |   |  |           |              |      |                  |
| 56  | ± 5         | 0.290 (7.4)                                | 0.210 (5.3)                                 | 0.250 (6.4)                             | 0.110 (2.8)                                | 20        | 0.032 (0.81) | 1    | 564R2DF0Q56      |
| 68  |             |  | 0.190 (4.8)                                 |   | 0.091 (2.3)                                |           |              |      | 564R2DF0Q68      |
| 82  |             |  | 0.175 (4.5)                                 |   | 0.075 (1.9)                                |           |              |      | 564R2DF0Q82      |
| 100   |             |  | 0.170 (4.3)                                 |   | 0.071 (1.8)                                |           |              |      | 564R2DF0T10      |
| <b>N2500</b>  |             |  |   |   |  |           |              |      |                  |
| 120   | ± 10        | 0.290 (7.4)                                | 0.185 (4.7)                                 | 0.250 (6.4)                             | 0.087 (2.2)                                | 20        | 0.032 (0.81) | 1    | 564R2DF0T12      |
| 150   |             |  | 0.170 (4.3)                                 |   | 0.071 (1.8)                                |           |              |      | 564R2DF0T15      |
| 180   |             |  | 0.185 (4.7)                                 |   | 0.071 (1.8)                                |           |              |      | 564R2DF0T18      |
| 270   |             | 0.330 (8.4)                                | 0.170 (4.3)                                 |   | 0.079 (2.0)                                |           |              |      | 564R2DF0T27      |
| 470   |             | 0.400 (10.2)                               | 0.170 (4.3)                                 |   | 0.075 (1.9)                                |           |              |      | 564R2DF0T47      |
| <b>N2800</b>  |             |  |   |   |  |           |              |      |                  |
| 220   | ± 10        | 0.290 (7.4)                                | 0.170 (4.3)                                 | 0.250 (6.4)                             | 0.087 (2.2)                                | 20        | 0.032 (0.81) | 1    | 564R2DF0T22      |
| 330   |             | 0.330 (8.4)                                | 0.185 (4.7)                                 |   | 0.083 (2.1)                                |           |              |      | 564R2DF0T33      |
| 390   |             | 0.330 (8.4)                                | 0.175 (4.5)                                 |   | 0.075 (1.9)                                |           |              |      | 564R2DF0T39      |
| 560   |             | 0.400 (10.2)                               | 0.185 (4.7)                                 |   | 0.087 (2.2)                                |           |              |      | 564R2DF0T56      |
| 680   |             | 0.400 (10.2)                               | 0.170 (4.3)                                 |   | 0.075 (1.9)                                |           |              |      | 564R2DF0T68      |
| 820   |             | 0.430 (10.9)                               | 0.175 (4.5)                                 |   | 0.075 (1.9)                                |           |              |      | 564R2DF0T82      |
| 1000  |             | 0.460 (11.7)                               | 0.170 (4.3)                                 |   | 0.075 (1.9)                                |           |              |      | 564R2DF0D10      |
| 1500  |             | 0.530 (13.5)                               |   |   | 0.071 (1.8)                                |           |              |      | 564R2DF0D15      |
| 1800  |             | 0.560 (14.2)                               | 0.170 (4.3)                                 |   | 0.071 (1.8)                                |           |              |      | 564R2DF0D18      |
| 2200  |             | 0.680 (17.3)                               | 0.180 (4.6)                                 | 0.375 (9.5)                             | 0.083 (2.1)                                |           |              |      | 564R2DF0D22      |
| 2300  |             |  | 0.175 (4.5)                                 |   | 0.079 (2.0)                                |           |              |      | 564R2DF0D23      |
| 2400  |             |  | 0.175 (4.5)                                 |   | 0.075 (1.9)                                |           |              |      | 564R2DF0D24      |
| 2700  |             |  | 0.170 (4.3)                                 |   | 0.071 (1.8)                                |           |              |      | 564R2DF0D27      |
| 3300  |             |  | 0.720 (18.3)                                |   | 0.170 (4.3)                                |           |              |      | 0.071 (1.8)      |
| 3900  |             | 0.790 (20.1)                               | 0.180 (4.6)                                 | 0.075 (1.9)                             | 564R2DF0D39                                |           |              |      |                  |
| 4700  |             | 0.900 (22.9)                               |   | 0.083 (2.1)                             | 564R2DF0D47                                |           |              |      |                  |
| 5600  |             | 0.900 (22.9)                               |   | 0.170 (4.3)                             | 0.075 (1.9)                                |           |              |      | 564R2DF0D56      |
| 6800  |             | 0.950 (24.1)                               | 0.170 (4.3)                                 | 0.071 (1.8)                             | 564R2DF0D68                                |           |              |      |                  |

**Note**

- Alternate lead spacings of 5 mm, 7.5 mm or 10 mm are available on request.



| ORDERING INFORMATION, CERAMIC 3 kV <sub>DC</sub> LOW DISSIPATION FACTOR |             |  |   |   |  |           |              |      |                  |             |
|---|-------------|--|---|---|--|-----------|--------------|------|------------------|-------------|
| C<br>(pF)   | TOL.<br>(%) | D <sub>max.</sub><br>DIAMETER<br>INCH (mm) | T <sub>max.</sub><br>THICKNESS<br>INCH (mm) | LS<br>LEAD SPACE<br>INCH (mm)<br>± 1 mm | LO<br>LEAD OFFSET<br>INCH (mm)<br>± 0.5 mm | WIRE SIZE |              | FIG. | ORDERING<br>CODE |             |
|   |             |  |   |   |  | AWG       | INCH (mm)    |      |                  |             |
| <b>N1500</b>  |             |  |   |   |  |           |              |      |                  |             |
| 10  | ± 5         | 0.290 (7.4)                                | 0.185 (4.7)                                 | 0.250 (6.4)                             | 0.087 (2.2)                                | 20        | 0.032 (0.81) | 1    | 564R3DF0Q10      |             |
| 27  |             |  | 0.220 (5.6)                                 |   | 0.122 (3.1)                                |           |              |      | 564R3DF0Q27      |             |
| 33  |             |  | 0.195 (5.0)                                 |   | 0.098 (2.5)                                |           |              |      | 564R3DF0Q33      |             |
| 39  |             |  | 0.190 (4.8)                                 |   | 0.094 (2.4)                                |           |              |      | 564R3DF0Q39      |             |
| 47  |             |  | 0.225 (5.7)                                 |   | 0.126 (3.2)                                |           |              |      | 564R3DF0Q47      |             |
| <b>N2200</b>  |             |  |   |   |  |           |              |      |                  |             |
| 12  | ± 5         | 0.290 (7.4)                                | 0.210 (5.3)                                 | 0.250 (6.4)                             | 0.110 (2.8)                                | 20        | 0.032 (0.81) | 1    | 564R3DF0Q12      |             |
| 22  |             | 0.330 (8.4)                                | 0.210 (5.3)                                 |   | 0.110 (2.8)                                |           |              |      | 564R3DF0Q22      |             |
| <b>N2000</b>  |             |  |   |   |  |           |              |      |                  |             |
| 56  | ± 5         | 0.290 (7.4)                                | 0.210 (5.3)                                 | 0.250 (6.4)                             | 0.110 (2.8)                                | 20        | 0.032 (0.81) | 1    | 564R3DF0Q56      |             |
| 68  |             |  | 0.190 (4.8)                                 |   | 0.098 (2.5)                                |           |              |      | 564R3DF0Q68      |             |
| 82  |             |  | 0.185 (4.7)                                 |   | 0.091 (2.3)                                |           |              |      | 564R3DF0Q82      |             |
| <b>N2500</b>  |             |  |   |   |  |           |              |      |                  |             |
| 100   | ± 10        | 0.290 (7.4)                                | 0.205 (5.2)                                 | 0.250 (6.4)                             | 0.106 (2.7)                                | 20        | 0.032 (0.81) | 1    | 564R3DF0T10      |             |
| 120   |             | 0.290 (7.4)                                | 0.190 (4.8)                                 |   | 0.091 (2.3)                                |           |              |      | 564R3DF0T12      |             |
| 220   |             | 0.330 (8.4)                                | 0.190 (4.8)                                 |   | 0.091 (2.3)                                |           |              |      | 564R3DF0T22      |             |
| <b>N2800</b>  |             |  |   |   |  |           |              |      |                  |             |
| 150   | ± 10        | 0.290 (7.4)                                | 0.200 (5.1)                                 | 0.250 (6.4)                             | 0.091 (2.3)                                | 20        | 0.032 (0.81) | 1    | 564R3DF0T15      |             |
| 180   |             | 0.290 (7.4)                                | 0.190 (4.8)                                 |   | 0.091 (2.3)                                |           |              |      | 564R3DF0T18      |             |
| 270   |             | 0.330 (8.4)                                | 0.205 (5.2)                                 |   | 0.110 (2.8)                                |           |              |      | 564R3DF0T27      |             |
| 330   |             | 0.330 (8.4)                                | 0.190 (4.8)                                 |   | 0.091 (2.3)                                |           |              |      | 564R3DF0T33      |             |
| 390   |             | 0.400 (10.2)                               | 0.215 (5.5)                                 |   | 0.102 (2.6)                                |           |              |      | 564R3DF0T39      |             |
| 470   |             | 0.400 (10.2)                               | 0.195 (5.0)                                 |   | 0.087 (2.2)                                |           |              |      | 564R3DF0T47      |             |
| 560   |             | 0.430 (10.9)                               | 0.200 (5.1)                                 |   | 0.102 (2.6)                                |           |              |      | 564R3DF0T56      |             |
| 680   |             | 0.460 (11.7)                               | 0.195 (5.0)                                 |   | 0.087 (2.2)                                |           |              |      | 564R3DF0T68      |             |
| 820   |             | 0.490 (12.5)                               | 0.195 (5.0)                                 |   | 0.102 (2.6)                                |           |              |      | 564R3DF0T82      |             |
| 1000  |             | 0.530 (13.5)                               | 0.190 (4.8)                                 | 0.091 (2.3)                             | 564R3DF0D10                                |           |              |      |                  |             |
| 1200  |             | 0.560 (14.2)                               | 0.190 (4.8)                                 | 0.375 (9.5)                             | 0.091 (2.3)                                |           |              |      | 564R3DF0D12      |             |
| 1500  |             | 0.620 (15.8)                               |   |   | 0.091 (2.3)                                |           |              |      | 564R3DF0D15      |             |
| 1800  |             | 0.680 (17.3)                               |   |   | 0.098 (2.5)                                |           |              |      | 564R3DF0D18      |             |
| 2200  |             | 0.720 (18.3)                               |   |   | 0.094 (2.4)                                |           |              |      | 564R3DF0D22      |             |
| 2700  |             | 0.790 (20.1)                               |   |   | 0.190 (4.8)                                |           |              |      | 0.087 (2.2)      | 564R3DF0D27 |
| 3300  |             | 0.900 (22.9)                               |   |   | 0.200 (5.1)                                |           |              |      | 0.102 (2.6)      | 564R3DF0D33 |
| 4700  |             | 0.950 (24.1)                               |   |   | 0.185 (4.7)                                |           |              |      | 0.087 (2.2)      | 564R3DF0D47 |

**Note**

- Alternate lead spacings of 5 mm, 7.5 mm or 10 mm are available on request.

**TAPE AND REEL OPTIONS**

Part number codes and specifications for tape and reel packaging are found in the general information document - find web-link below.



Power Rating - 1DFO Series 500 V<sub>RMS</sub> Low DF - Note 1



Note 2

Power Rating - 2DFO Series 1000 V<sub>RMS</sub> Low DF - Note 1



Note 2

Power Rating - 3DFO Series 1500 V<sub>RMS</sub> Low DF - Note 1



Note 2

**Note 1**

Power ratings are based on still air 60 °C ambient with additional 30 °C rise due to self heating. Thermal effects such as forced air cooling, component encapsulation or other heat-sinking techniques will alter ratings. Actual circuit for application recommended.

**Note 2**

For convenience, power rating charts are shown to 100 kHz. Higher frequency operation is permissible with appropriate derating. Consult us for application suggestions.

Temperature Characteristics for 1DFO, 2DFO & 3DFO Series



**RELATED DOCUMENTS**

General Information

[www.vishay.com/doc?23140](http://www.vishay.com/doc?23140)



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## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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