

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



### 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)


**RoHS**  
COMPLIANT

### 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

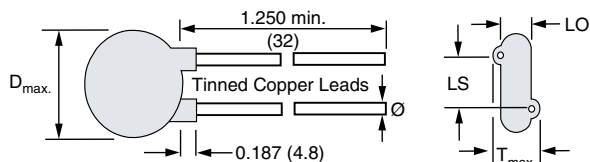
### CLIMATIC CATEGORY ACC. TO EN 60068-1

55/125/21

### OPERATING TEMPERATURE RANGE

-55 °C to +105 °C

**DIMENSIONS** in inches (millimeters)

**Fig. 1**

**ORDERING INFORMATION, CERAMIC 1 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 |             |             |
|-----------|-------------|---------------------------------------------|----------------------------------------------|-----------------------------------------|--------------------------------------------|-----------|--------------|------|------------------|-------------|-------------|
| C0G (NP0) |             |                                             |                                              |                                         |                                            |           |              |      |                  |             |             |
| 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      |             |             |
| N1500     |             |                                             |                                              |                                         |                                            |           |              |      |                  |             |             |
| 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      |             |             |
| N2200     |             |                                             |                                              |                                         |                                            |           |              |      |                  |             |             |
| 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      |             |             |
| N2000     |             |                                             |                                              |                                         |                                            |           |              |      |                  |             |             |
| 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      |             |             |
| N2500     |             |                                             |                                              |                                         |                                            |           |              |      |                  |             |             |
| 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      |             |             |
| N2800     |             |                                             |                                              |                                         |                                            |           |              |      |                  |             |             |
| 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      |             | 0.440 (11.2)                                |                                              |                                         | 0.051 (1.3)                                |           |              |      | 561R1DF0D18      |             |             |
| 2200      |             | 0.460 (11.7)                                |                                              |                                         | 0.047 (1.2)                                |           |              |      | 561R1DF0D22      |             |             |
| 2700      |             | 0.490 (12.4)                                |                                              |                                         | 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      |             | 0.630 (16.0)                                |                                              |                                         |                                            |           |              |      |                  | 0.047 (1.2) | 561R1DF0D47 |
| 5600      |             | 0.680 (17.3)                                |                                              |                                         |                                            |           |              |      |                  | 0.047 (1.2) | 561R1DF0D56 |
| 6800      |             | 0.760 (19.3)                                |                                              |                                         |                                            |           |              |      |                  | 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 |
|-----------|-------------|---------------------------------------------|----------------------------------------------|-----------------------------------------|--------------------------------------------|-----------|--------------|------|------------------|
| N1500     |             |                                             |                                              |                                         |                                            |           |              |      |                  |
| 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      |
| N2000     |             |                                             |                                              |                                         |                                            |           |              |      |                  |
| 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      |
| N2500     |             |                                             |                                              |                                         |                                            |           |              |      |                  |
| 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      |
| N2800     |             |                                             |                                              |                                         |                                            |           |              |      |                  |
| 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)                                  | 0.083 (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)                                |                                              | 0.071 (1.8)                             | 564R2DF0D33                                |           |              |      |                  |
| 3900      |             | 0.790 (20.1)                                |                                              | 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 |
|-----------|-------------|--------------------------------------------|---------------------------------------------|-----------------------------------------|--------------------------------------------|-----------|--------------|------|------------------|
| N1500     |             |                                            |                                             |                                         |                                            |           |              |      |                  |
| 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        |             | 0.330 (8.4)                                | 0.225 (5.7)                                 |                                         | 0.126 (3.2)                                |           |              |      | 564R3DF0Q47      |
| N2200     |             |                                            |                                             |                                         |                                            |           |              |      |                  |
| 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      |
| N2000     |             |                                            |                                             |                                         |                                            |           |              |      |                  |
| 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      |
| N2500     |             |                                            |                                             |                                         |                                            |           |              |      |                  |
| 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      |
| N2800     |             |                                            |                                             |                                         |                                            |           |              |      |                  |
| 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)                               |                                             |                                         | 0.087 (2.2)                                |           |              |      | 564R3DF0D27      |
| 3300      |             | 0.900 (22.9)                               |                                             |                                         | 0.102 (2.6)                                |           |              |      | 564R3DF0D33      |
| 4700      |             | 0.950 (24.1)                               |                                             |                                         | 0.185 (4.7)                                |           |              |      | 0.087 (2.2)      |

**Note**

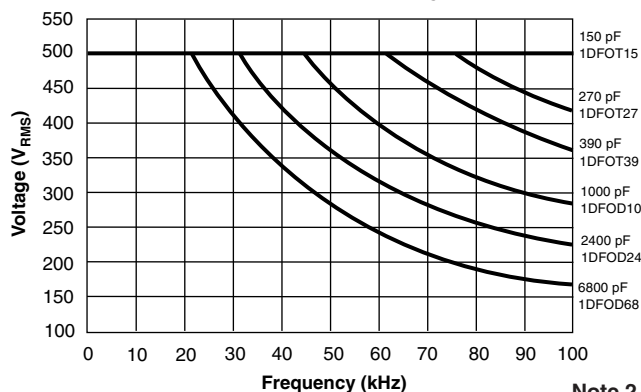
- Alternate lead spacings of 5 mm, 7.5 mm or 10 mm are available on request.

**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.

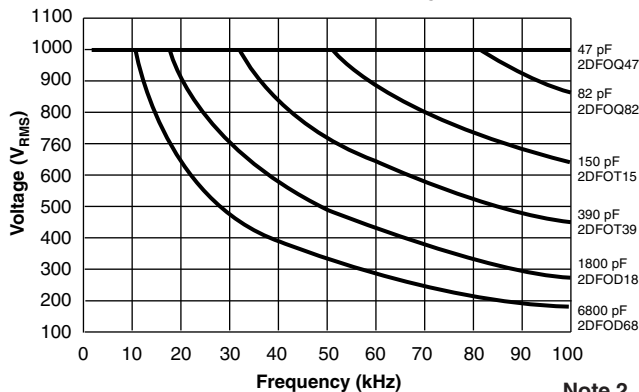


Power Rating - 1DFO Series 500 V<sub>RMS</sub> Low DF - Note 1



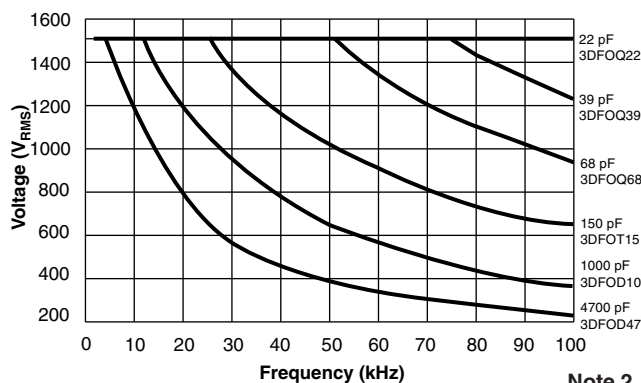
Note 2

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

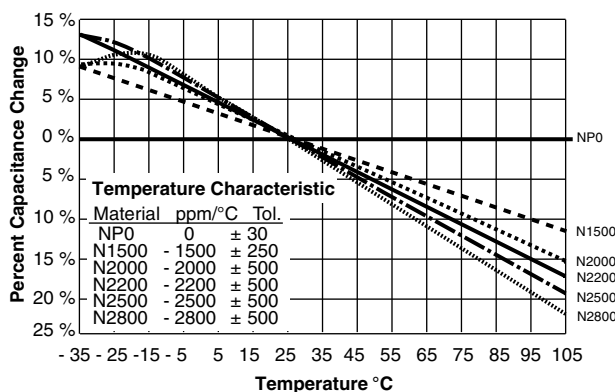
Power ratings are based on still air 60 °C ambient with additional 30 °C rise due to self heating.

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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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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