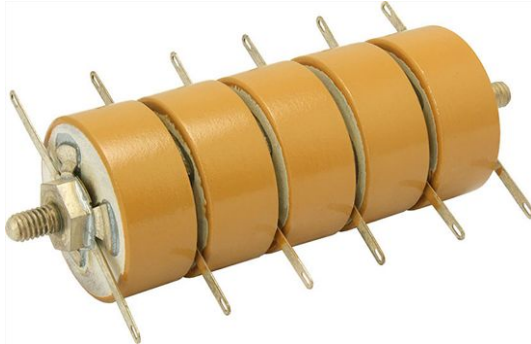


## High Voltage Ceramic Capacitor Stacks, with Solder Tags, Class 2 Ceramic



| QUICK REFERENCE DATA  |                       |                       |
|-----------------------|-----------------------|-----------------------|
| DESCRIPTION           | VALUE                 |                       |
| Ceramic Class         | 2                     | 2                     |
| Ceramic Dielectric    | R4000                 | R6000                 |
| Type                  | GFMM2505,<br>GFMM2507 | GFMM2505,<br>GFMM2507 |
| Voltage ( $V_{DC}$ )  | 19 000                | 11 000                |
| Min. Capacitance (pF) | 1300                  | 2200                  |
| Max. Capacitance (pF) | 1300                  | 2200                  |
| Mounting              | Solder tags           |                       |

### MATERIAL

Capacitor elements made from class 2 ceramic dielectric with noble metal electrodes.

Connection terminals between the discs: brass, silver plated

### FINISH

Insulating rims of the disc protective lacquered.

### OPTIONAL TERMINALS

We offer a variety of intermediate solder tags to meet customers requirements. Please contact us.

### FEATURES

- High voltage ratings
- Multiple design up to 7 stages
- Other versions on request

### APPLICATIONS

Ceramic capacitor stacks have been developed for use in low power voltage multipliers used in high voltage DC generators. The major applications are x-ray equipment for medical diagnostics or electrostatic paint spraying equipment.

### CAPACITANCE RANGE

1.3 nF to 2.2 nF

### CAPACITANCE TOLERANCE

- - 10 % / + 50 %
- - 10 % / + 60 %

### CERAMIC DIELECTRIC

- R4000 (Y5U)
- R6000 (Y5U)

### RATED VOLTAGE

- 11 kV<sub>DC</sub> per single disc
- 19 kV<sub>DC</sub> per single disc

### DIELECTRIC STRENGTH TEST

- 15 kV<sub>DC</sub> per single disc, in dielectric fluid
- 25 kV<sub>DC</sub> per single disc, in dielectric fluid

### DISSIPATION FACTOR

Max. 2.5 % (1 kHz)

### INSULATION RESISTANCE

Min. 10 G $\Omega$  (at 25 °C)

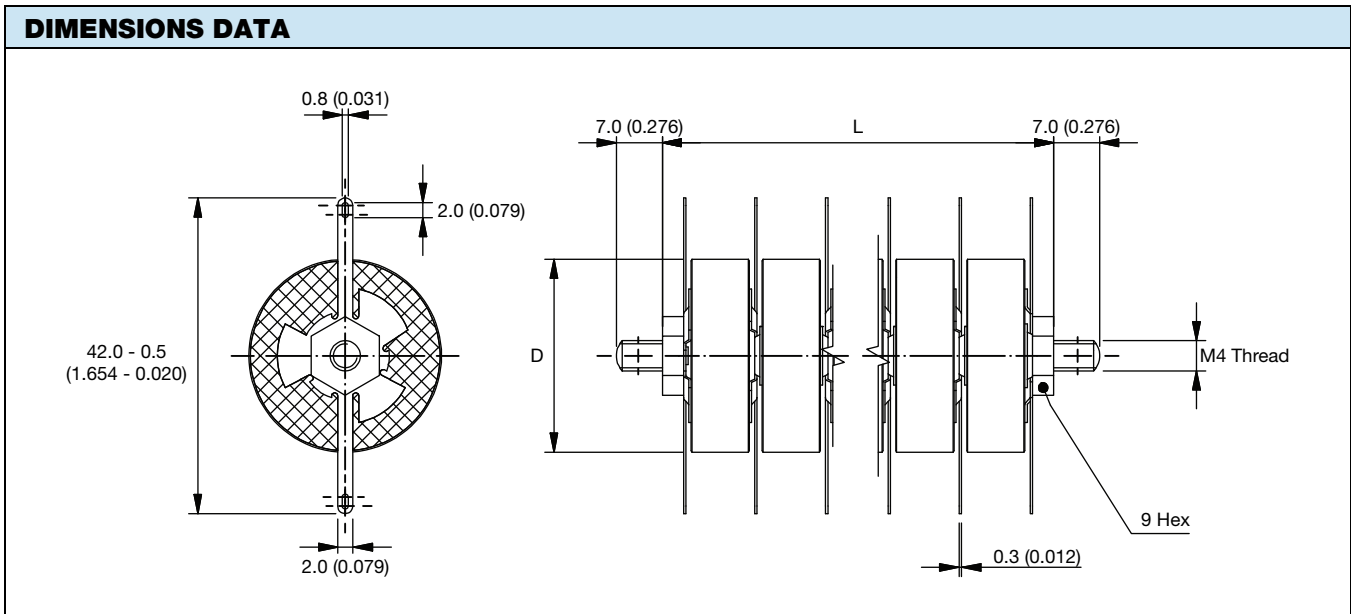
### OPERATING TEMPERATURE RANGE

-25 °C to +85 °C

| SAP PART NUMBER AND ELECTRICAL DATA |             |  |   |  |                       |                             |                             |
|-------------------------------------|-------------|--|---|--|-----------------------|-----------------------------|-----------------------------|
| PART NUMBER                         | CERAMIC     | CAPACITANCE VALUES <sup>(1)</sup> (pF) | RATED VOLTAGE <sup>(1)(2)</sup> (kV <sub>DC</sub> ) | TEST VOLTAGE <sup>(1)(3)</sup> (kV <sub>DC</sub> ) | NO. OF DISC IN SERIES | L <sub>MAX.</sub> mm (INCH) | D <sub>MAX.</sub> mm (INCH) |
| RHS1N3096BTZGY5998                  | R4000 (Y5U) | 1300                                   | 19  | 25   | 5                     | 70 (2.76)                   | 27 (1.06)                   |
| RHS1N3096BTZGZ5999                  |             | - 10 % / + 50 %                        |   |  | 7                     | 93 (3.66)                   |                             |
| RHS1N3049BTZGT5994                  |             | 1300                                   |   |  | 5                     | 70 (2.76)                   |                             |
| RHS1N3049BTZBU5564                  |             | - 10 % / + 60 %                        |   |  | 7                     | 93 (3.66)                   |                             |
| RHS2N2096WEZGU5224                  | R6000 (Y5U) | 2200                                   | 11  | 15   | 5                     | 55 (2.17)                   |                             |
| RHS2N2096WEZGW5996                  |             | - 10 % / + 50 %                        |   |  | 7                     | 75 (2.95)                   |                             |
| RHS2N2049WEZGV5995                  |             | 2200                                   |   |  | 5                     | 55 (2.17)                   |                             |
| RHS2N2049WEZGX5997                  |             | - 10 % / + 60 %                        |   |  | 7                     | 75 (2.95)                   |                             |

**Notes**

- (1) Per single disc
- (2) In an insulating environment
- (3) Min. 3 s in dielectric fluid



| RELATED DOCUMENTS   |  |
|---------------------|--|
| General Information | <a href="http://www.vishay.com/doc?22090">www.vishay.com/doc?22090</a> |



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