

## Ceramic High Voltage Disc Capacitors, Class 2



Dimensions in mm

|                                 | COATING<br>EXTENSION e | BULK STANDARD<br>LEAD LENGTH L |
|---------------------------------|------------------------|--------------------------------|
| HA., HB., HC.,<br>HD., HE., HF. | 3 max.                 | 30.0 + 0 - 3<br>or             |
| HGZ                             | 5 max.                 | 10.0 ± 1                       |

### COATING:

Epoxy dipped, insulating,  
Flame retarding acc. to UL 94V-0

### TEMPERATURE CHARACTERISTIC OF CAPACITANCE:

See General Information

### TAPING AND SPECIAL LEAD CONFIGURATIONS:

See General Information

### MARKING:

|                       |                                      |
|-----------------------|--------------------------------------|
| Capacitance value     | Clear text                           |
| Capacitance tolerance | with letter code                     |
| Rated voltage         | Clear text                           |
| Ceramic dielectric    | with letter code                     |
|                       | HAZ, HBZ, HCZ, HFZ, HGZ series: 'D'  |
|                       | HAE, HCE, HDE, HEE, HFE series: 'E'  |
|                       | HAX, HBX, HCX series: no Letter code |
| Manufacturers logo    | Where D ≥ 13 mm only                 |

### DESIGN:

Disc capacitors with epoxy coating

### RATED VOLTAGE $U_R$ :

|               |                    |
|---------------|--------------------|
| HAZ, HAE, HAX | 1 kV <sub>DC</sub> |
| HBZ, HBE, HBX | 2 kV <sub>DC</sub> |
| HCZ, HCE, HCX | 3 kV <sub>DC</sub> |
| HDE           | 4 kV <sub>DC</sub> |
| HEE           | 5 kV <sub>DC</sub> |
| HFZ, HFE      | 6 kV <sub>DC</sub> |
| HGZ           | 8 kV <sub>DC</sub> |

### DIELECTRIC STRENGTH BETWEEN LEADS:

|                |                              |
|----------------|------------------------------|
| Component test |                              |
| HAZ, HAE, HAX  | 1750 kV <sub>DC</sub> , 2 s  |
| HBZ, HBE, HBX  | 3000 kV <sub>DC</sub> , 2 s  |
| HCZ, HCE, HCX  | 5000 kV <sub>DC</sub> , 2 s  |
| HDE            | 6000 kV <sub>DC</sub> , 2 s  |
| HEE            | 7500 kV <sub>DC</sub> , 2 s  |
| HFZ, HFE       | 9000 kV <sub>DC</sub> , 2 s  |
| HGZ            | 12000 kV <sub>DC</sub> , 2 s |

### DISSIPATION FACTOR $\tan \delta$ :

|                         |                         |
|-------------------------|-------------------------|
| HA., HB., HC., HD., HE. | ≤ 25 • 10 <sup>-3</sup> |
| HF., HG.                | ≤ 20 • 10 <sup>-3</sup> |

### INSULATION RESISTANCE $R_{IS}$ :

$$\geq 1 \cdot 10^{10} \Omega$$

### CATEGORY TEMPERATURE RANGE $\vartheta_A$ :

(- 40 to + 85) °C

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

40 / 085 / 21



RoHS  
COMPLIANT

### ORDERING INFORMATION

| HAZ   | 101                  | M         | BA               | BJ0                   | K                | R                 |
|-------|----------------------|-----------|------------------|-----------------------|------------------|-------------------|
| MODEL | CAPACITANCE<br>VALUE | TOLERANCE | RATED<br>VOLTAGE | LEAD<br>CONFIGURATION | INTERNAL<br>CODE | RoHS<br>COMPLIANT |



| ORDERING INFORMATION, CERAMIC HIGH VOLTAGE DISC CAPACITORS, 1 KV (DC) |             |             |                |                |               |              |                |                |                |
|---|-------------|-------------|----------------|----------------|---------------|--------------|----------------|----------------|----------------|
| C (pF)  | TOL. (%)    | D x s (mm)  | F ± 1* (mm)    | d ± 0.05* (mm) | V ± 0.5* (mm) | CERAMIC CODE | ORDERING CODE  |                |                |
| <b>CLASS 2 K 2000</b>   |             |             |                |                |               |              |                |                |                |
| 47  | ± 10 %      | 7.0 x 3.0   | 5              | 0.6            | 1.2           | Z            | HAZ470□BA□□□KR |                |                |
| 56  |             | 7.0 x 3.0   |                |                |               |              | HAZ560□BA□□□KR |                |                |
| 68  |             | 7.0 x 3.0   |                |                |               |              | HAZ680□BA□□□KR |                |                |
| 82  |             | 7.0 x 3.0   |                |                |               |              | HAZ820□BA□□□KR |                |                |
| 100   |             | 7.0 x 3.0   |                |                |               |              | HAZ101□BA□□□KR |                |                |
| 150   |             | 7.0 x 3.0   |                |                |               |              | HAZ151□BA□□□KR |                |                |
| 220   |             | 7.0 x 3.0   |                |                |               |              | HAZ221□BA□□□KR |                |                |
| 330   |             | 7.0 x 3.0   |                |                |               |              | HAZ331□BA□□□KR |                |                |
| 470   |             | 7.0 x 3.0   |                |                |               |              | HAZ471□BA□□□KR |                |                |
| 680   |             | 7.0 x 3.0   |                |                |               |              | HAZ681□BA□□□KR |                |                |
| 1000  |             | 9.0 x 3.0   |                |                |               |              | HAZ102□BA□□□KR |                |                |
| 1500  |             | 9.0 x 3.0   |                |                |               |              | HAZ152□BA□□□KR |                |                |
| 2200  |             | 11.0 x 3.0  |                |                |               |              | HAZ222□BA□□□KR |                |                |
| 3300  |             | 13.0 x 3.0  |                |                |               |              | HAZ332□BA□□□KR |                |                |
| 4700  | 15.0 x 3.0  | 7.5         | HAZ472□BA□□□KR |                |               |              |                |                |                |
| <b>CLASS 2 K 6000</b>   |             |             |                |                |               |              |                |                |                |
| 1000  | ± 20 %      | 7.0 x 3.0   | 5              | 0.6            | 1.2           | E            | HAE102□BA□□□KR |                |                |
| 1500  |             | 9.0 x 3.0   |                |                |               |              | HAE152□BA□□□KR |                |                |
| 2200  |             | 9.0 x 3.0   |                |                |               |              | HAE222□BA□□□KR |                |                |
| 3300  |             | 11.0 x 3.0  |                |                |               |              | HAE332□BA□□□KR |                |                |
| 4700  |             | 11.0 x 3.0  |                |                |               |              | HAE472□BA□□□KR |                |                |
| 6800  |             | 13.0 x 3.0  |                |                |               |              | HAE682□BA□□□KR |                |                |
| 0.010 μF  |             | 15.0 x 3.0  |                |                |               |              | 7.5            | HAE103□BA□□□KR |                |
| <b>CLASS 2 K 10000</b>  |             |             |                |                |               |              |                |                |                |
| 2200  | - 20 + 50 % | 7.0 x 3.0   | 5              | 0.6            | 1.2           | X            | HAX222□BA□□□KR |                |                |
| 3300  |             | 9.0 x 3.0   |                |                |               |              | HAX332□BA□□□KR |                |                |
| 4700  |             | 9.0 x 3.0   |                |                |               |              | HAX472□BA□□□KR |                |                |
| 6800  |             | 13.0 x 3.0  |                |                |               |              | HAX682□BA□□□KR |                |                |
| 0.010 μF  |             | (± 20 %) ** |                |                |               |              | 13.0 x 3.0     | 7.5            | HAX103□BA□□□KR |
| 0.015 μF  |             |             |                |                |               |              | 17.0 x 3.0     |                | HAX153□BA□□□KR |
| 0.022 μF  | 18.0 x 3.0  |             | HAX223□BA□□□KR |                |               |              |                |                |                |

\* Standard lead configuration, other lead spacing and diameter available on request.

\*\* ± 20 % available on request.

| ORDERING CODE |                    |  |   |
|---------------|--------------------|--|---|
| □             | 7th digit          | Capacitance tolerance                        | ± 10 % = K<br>± 20 % = M<br>+ 50 - 20 % = S |
| □□□           | 10th to 12th digit | Lead configuration (See General Information) |   |
| R             | 14th digit         | RoHS Compliant Component                     |   |

| ORDERING INFORMATION, CERAMIC HIGH VOLTAGE DISC CAPACITORS, 2 KV (DC) |                                |            |              |                 |                |              |                |
|---|--------------------------------|------------|--------------|-----------------|----------------|--------------|----------------|
| C (pF)  | TOL. (%)                       | D x s (mm) | F ± 1 * (mm) | d ± 0.05 * (mm) | V ± 0.5 * (mm) | CERAMIC CODE | ORDERING CODE  |
| <b>CLASS 2 K 2000</b>   |                                |            |              |                 |                |              |                |
| 56  | ± 10 %<br><br>± 20 %           | 7.0 x 3.0  | 7.5          | 0.6             | 1.4            | Z            | HBZ560□BA□□□KR |
| 68  |                                | 7.0 x 3.0  |              |                 |                |              | HBZ680□BB□□□KR |
| 82  |                                | 7.0 x 3.0  |              |                 |                |              | HBZ820□BB□□□KR |
| 100   |                                | 7.0 x 3.0  |              |                 |                |              | HBZ101□BB□□□KR |
| 150   |                                | 7.0 x 3.0  |              |                 |                |              | HBZ151□BB□□□KR |
| 220   |                                | 7.0 x 3.0  |              |                 |                |              | HBZ221□BB□□□KR |
| 330   |                                | 7.0 x 3.0  |              |                 |                |              | HBZ331□BB□□□KR |
| 470   |                                | 7.0 x 3.0  |              |                 |                |              | HBZ471□BB□□□KR |
| 680   |                                | 7.0 x 3.0  |              |                 |                |              | HBZ681□BB□□□KR |
| 1000  |                                | 9.0 x 3.0  |              |                 |                |              | HBZ102□BB□□□KR |
| 1500  |                                | 9.0 x 3.0  |              |                 |                |              | HBZ152□BB□□□KR |
| 2200  |                                | 11.0 x 3.0 |              |                 |                |              | HBZ222□BB□□□KR |
| 3300  |                                | 13.0 x 3.0 |              |                 |                |              | HBZ332□BB□□□KR |
| 4700  |                                | 15.0 x 3.0 |              |                 |                |              | HBZ472□BB□□□KR |
| <b>CLASS 2 K 6000</b>   |                                |            |              |                 |                |              |                |
| 680   | ± 20 %                         | 7.0 x 3.0  | 7.5          | 0.6             | 1.4            | E            | HBE681□BB□□□KR |
| 1000  |                                | 7.0 x 3.0  |              |                 |                |              | HBE102□BB□□□KR |
| 1500  |                                | 9.0 x 3.0  |              |                 |                |              | HBE152□BB□□□KR |
| 2200  |                                | 9.0 x 3.0  |              |                 |                |              | HBE222□BB□□□KR |
| 3300  |                                | 11.0 x 3.0 |              |                 |                |              | HBE332□BB□□□KR |
| 4700  |                                | 11.0 x 3.0 |              |                 |                |              | HBE472□BB□□□KR |
| 6800  |                                | 13.0 x 3.0 |              |                 |                |              | HBE682□BB□□□KR |
| 0.010 μF  |                                | 15.0 x 3.0 |              |                 |                |              | HBE103□BB□□□KR |
| <b>CLASS 2 K 10000</b>  |                                |            |              |                 |                |              |                |
| 1500  | - 20 + 50 %<br><br>(± 20 %) ** | 6.0 x 3.0  | 7.5          | 0.6             | 1.2            | X            | HBX152□BB□□□KR |
| 2200  |                                | 7.0 x 3.0  |              |                 |                |              | HBX222□BB□□□KR |
| 3300  |                                | 9.0 x 3.0  |              |                 |                |              | HBX332□BB□□□KR |
| 4700  |                                | 9.0 x 3.0  |              |                 |                |              | HBX472□BB□□□KR |
| 6800  |                                | 13.0 x 3.0 |              |                 |                |              | HBX682□BB□□□KR |
| 0.010 μF  |                                | 13.0 x 3.0 |              |                 |                |              | HBX103□BB□□□KR |
| 0.015 μF  |                                | 17.0 x 3.0 |              |                 |                |              | HBX153□BB□□□KR |
| 0.022 μF  |                                | 18.0 x 3.0 |              |                 |                |              | HBX223□BB□□□KR |

\* Standard lead configuration, other lead spacing and diameter available on request.

\*\* ± 20 % available on request.

| ORDERING CODE |                    |  |   |
|---------------|--------------------|--|---|
| □             | 7th digit          | Capacitance tolerance                        | ± 10 % = K<br>± 20 % = M<br>+ 50 - 20 % = S |
| □□□           | 10th to 12th digit | Lead configuration (See General Information) |   |
| R             | 14th digit         | RoHS Compliant Component                     |   |



| ORDERING INFORMATION, CERAMIC HIGH VOLTAGE DISC CAPACITORS, 3 KV (DC) |            |                |                |                |               |              |                |                |     |   |                |
|---|------------|----------------|----------------|----------------|---------------|--------------|----------------|----------------|-----|---|----------------|
| C (pF)  | TOL. (%)   | D x s (mm)     | F ± 1* (mm)    | d ± 0.05* (mm) | V ± 0.5* (mm) | CERAMIC CODE | ORDERING CODE  |                |     |   |                |
| <b>CLASS 2 K 2000</b>   |            |                |                |                |               |              |                |                |     |   |                |
| 68  | ± 10 %     | 7.0 x 4.0      | 10             | 0.6            | 1.8           | Z            | HCZ680□BC□□□KR |                |     |   |                |
| 82  |            | 7.0 x 4.0      |                |                |               |              | HCZ820□BC□□□KR |                |     |   |                |
| 100   |            | 7.0 x 4.0      |                |                |               |              | HCZ101□BC□□□KR |                |     |   |                |
| 120   |            | 7.0 x 4.0      |                |                |               |              | HCZ121□BC□□□KR |                |     |   |                |
| 150   |            | 7.0 x 4.0      |                |                |               |              | HCZ151□BC□□□KR |                |     |   |                |
| 180   |            | 8.0 x 4.0      |                |                |               |              | HCZ181□BC□□□KR |                |     |   |                |
| 220   |            | 8.0 x 4.0      |                |                |               |              | HCZ221□BC□□□KR |                |     |   |                |
| 330   |            | 8.0 x 4.0      |                |                |               |              | HCZ331□BC□□□KR |                |     |   |                |
| 470   |            | ± 20 %         |                |                |               |              | 10.0 x 4.0     | 0.8            | 2.0 | E | HCZ471□BC□□□KR |
| 680   |            |                |                |                |               |              | 10.0 x 4.0     |                |     |   | HCZ681□BC□□□KR |
| 1000  | 11.0 x 4.0 |                | HCZ102□BC□□□KR |                |               |              |                |                |     |   |                |
| 1200  | 15.0 x 4.0 |                | HCZ122□BC□□□KR |                |               |              |                |                |     |   |                |
| 1500  | 15.0 x 4.0 |                | HCZ152□BC□□□KR |                |               |              |                |                |     |   |                |
| 2200  | 17.0 x 4.0 |                | HCZ222□BC□□□KR |                |               |              |                |                |     |   |                |
| 3300  | 21.0 x 4.0 |                | HCZ332□BC□□□KR |                |               |              |                |                |     |   |                |
| 4700  | 21.0 x 4.0 |                | HCZ472□BC□□□KR |                |               |              |                |                |     |   |                |
| 6800  | 25.0 x 4.0 | HCZ682□BC□□□KR |                |                |               |              |                |                |     |   |                |
| <b>CLASS 2 K 6000</b>   |            |                |                |                |               |              |                |                |     |   |                |
| 470   | ± 20 %     | 7.0 x 4.0      | 10             | 0.6            | 2.0           | E            | HCE471□BC□□□KR |                |     |   |                |
| 680   |            | 8.0 x 4.0      |                |                |               |              | HCE681□BC□□□KR |                |     |   |                |
| 1000  |            | 9.0 x 4.0      |                |                |               |              | HCE102□BC□□□KR |                |     |   |                |
| 1500  |            | 11.0 x 4.0     |                |                |               |              | HCE152□BC□□□KR |                |     |   |                |
| 2200  |            | 11.0 x 4.0     |                |                |               |              | HCE222□BC□□□KR |                |     |   |                |
| 3300  |            | 15.0 x 4.0     |                | 0.8            | 2.2           |              | HCE332□BC□□□KR |                |     |   |                |
| 4700  |            | 17.0 x 4.0     |                |                |               |              | HCE472□BC□□□KR |                |     |   |                |
| 6800  |            | 21.0 x 4.0     |                |                |               |              | HCE682□BC□□□KR |                |     |   |                |
| 0.010 μF  |            | 25.0 x 4.0     |                |                |               |              | 2.5            | HCE103□BC□□□KR |     |   |                |

\* Standard lead configuration, other lead spacing and diameter available on request.

| ORDERING CODE |                    |  |   |
|---------------|--------------------|--|---|
| □             | 7th digit          | Capacitance tolerance                        | ± 10 % = K<br>± 20 % = M<br>+ 50 - 20 % = S |
| □□□           | 10th to 12th digit | Lead configuration (See General Information) |   |
| R             | 14th digit         | RoHS Compliant Component                     |   |

| ORDERING INFORMATION, CERAMIC HIGH VOLTAGE DISC CAPACITORS, 4 KV (DC) |                      |            |              |                 |                |              |                |
|---|----------------------|------------|--------------|-----------------|----------------|--------------|----------------|
| C (pF)  | TOL. (%)             | D x s (mm) | F ± 1 * (mm) | d ± 0.05 * (mm) | V ± 0.5 * (mm) | CERAMIC CODE | ORDERING CODE  |
| <b>CLASS 2 K 6000</b>   |                      |            |              |                 |                |              |                |
| 33  | ± 20 %<br>(± 10 %)** | 8.0 x 4.5  | 12.5         | 0.6             | 1.9            | E            | HDE330□BD□□□KR |
| 47  |                      | 8.0 x 5.0  |              |                 | HDE470□BD□□□KR |              |                |
| 68  |                      | 8.0 x 5.0  |              |                 | HDE680□BD□□□KR |              |                |
| 100   |                      | 8.0 x 5.0  |              |                 | HDE101□BD□□□KR |              |                |
| 150   |                      | 8.0 x 5.0  |              |                 | HDE151□BD□□□KR |              |                |
| 220   |                      | 8.0 x 5.0  |              |                 | HDE221□BD□□□KR |              |                |
| 330   |                      | 8.0 x 5.0  |              |                 | HDE331□BD□□□KR |              |                |
| 470   |                      | 8.0 x 5.0  |              |                 | HDE471□BD□□□KR |              |                |
| 680   |                      | 9.0 x 5.0  |              |                 | HDE681□BD□□□KR |              |                |
| 1000  |                      | 10.0 x 5.0 |              |                 | HDE102□BD□□□KR |              |                |
| 1500  |                      | 12.0 x 5.0 |              |                 | HDE152□BD□□□KR |              |                |
| 2200  |                      | 13.0 x 5.0 |              |                 | HDE222□BD□□□KR |              |                |
| 3300  |                      | 15.0 x 5.0 |              |                 | HDE332□BD□□□KR |              |                |
| 4700  |                      | 18.0 x 5.0 |              |                 | HDE472□BD□□□KR |              |                |

\* Standard lead configuration, other lead spacing and diameter available on request.

\*\* ± 10 % available on request.

| ORDERING INFORMATION, CERAMIC HIGH VOLTAGE DISC CAPACITORS, 5 KV (DC) |          |            |              |                 |                |              |                |
|---|----------|------------|--------------|-----------------|----------------|--------------|----------------|
| C (pF)  | TOL. (%) | D x s (mm) | F ± 1 * (mm) | d ± 0.05 * (mm) | V ± 0.5 * (mm) | CERAMIC CODE | ORDERING CODE  |
| <b>CLASS 2 K 6000</b>   |          |            |              |                 |                |              |                |
| 220   | ± 20 %   | 7.0 x 5.0  | 12.5         | 0.6             | 3.8            | E            | HEE221□BE□□□KR |
| 330   |          | 9.0 x 5.0  |              | HEE331□BE□□□KR  |                |              |                |
| 680   |          | 9.0 x 5.0  |              | HEE681□BE□□□KR  |                |              |                |
| 1000  |          | 11.0 x 5.0 |              | HEE102□BE□□□KR  |                |              |                |
| 1500  |          | 13.0 x 5.0 |              | HEE152□BE□□□KR  |                |              |                |
| 2200  |          | 15.0 x 5.0 |              | HEE222□BE□□□KR  |                |              |                |

\* Standard lead configuration, other lead spacing and diameter available on request.

| ORDERING CODE |                    |  |                          |
|---------------|--------------------|--|--------------------------|
| □             | 7th digit          | Capacitance tolerance                        | ± 10 % = K<br>± 20 % = M |
| □□□           | 10th to 12th digit | Lead configuration (See General Information) |                          |
| R             | 14th digit         | RoHS Compliant Component                     |                          |



| ORDERING INFORMATION, CERAMIC HIGH VOLTAGE DISC CAPACITORS, 6 KV (DC) |                       |                |             |                |               |              |                |
|---|-----------------------|----------------|-------------|----------------|---------------|--------------|----------------|
| C (pF)  | TOL. (%)              | D x s (mm)     | F ± 1* (mm) | d ± 0.05* (mm) | V ± 0.5* (mm) | CERAMIC CODE | ORDERING CODE  |
| <b>CLASS 2 K 2000</b>   |                       |                |             |                |               |              |                |
| 56  | ± 20 %<br>(± 10 %) ** | 7.0 x 5.0      | 12.5        | 0.6            | 3.5           | Z            | HFZ560□BF□□□KR |
| 68  |                       | 7.0 x 5.0      |             |                |               |              | HFZ680□BF□□□KR |
| 82  |                       | 7.0 x 5.0      |             |                |               |              | HFZ820□BF□□□KR |
| 100   |                       | 8.0 x 5.0      |             |                |               |              | HFZ101□BF□□□KR |
| 120   |                       | 8.0 x 5.0      |             |                |               |              | HFZ121□BF□□□KR |
| 150   |                       | 8.0 x 5.0      |             |                |               |              | HFZ151□BF□□□KR |
| 180   |                       | 10.0 x 5.0     |             |                |               |              | HFZ181□BF□□□KR |
| 220   |                       | 10.0 x 5.0     |             |                |               |              | HFZ221□BF□□□KR |
| 270   |                       | 10.0 x 5.0     |             |                |               |              | HFZ271□BF□□□KR |
| 330   |                       | 10.0 x 5.0     |             |                |               |              | HFZ331□BF□□□KR |
| 390   |                       | 12.0 x 5.0     |             | HFZ391□BF□□□KR |               |              |                |
| 470   |                       | 12.0 x 5.0     |             | HFZ471□BF□□□KR |               |              |                |
| 560   |                       | 13.0 x 5.0     |             | HFZ561□BF□□□KR |               |              |                |
| 680   |                       | 15.0 x 5.0     |             | HFZ681□BF□□□KR |               |              |                |
| 820   |                       | 15.0 x 5.0     |             | HFZ821□BF□□□KR |               |              |                |
| 1000  |                       | 17.0 x 5.0     |             | HFZ102□BF□□□KR |               |              |                |
| 1200  |                       | 19.0 x 5.0     |             | HFZ122□BF□□□KR |               |              |                |
| 1500  |                       | 21.0 x 5.0     |             | HFZ152□BF□□□KR |               |              |                |
| 1800  |                       | 21.0 x 5.0     |             | HFZ182□BF□□□KR |               |              |                |
| 2200  |                       | 25.0 x 5.0     |             | HFZ222□BF□□□KR |               |              |                |
| 2700  | 25.0 x 5.0            | HFZ272□BF□□□KR |             |                |               |              |                |
| <b>CLASS 2 K 6000</b>   |                       |                |             |                |               |              |                |
| 150   | ± 20 %                | 7.0 x 5.0      | 12.5        | 0.6            | 3.5           | E            | HFE151□BF□□□KR |
| 220   |                       | 7.0 x 5.0      |             |                |               |              | HFE221□BF□□□KR |
| 330   |                       | 9.0 x 5.0      |             |                |               |              | HFE331□BF□□□KR |
| 470   |                       | 9.0 x 5.0      |             |                |               |              | HFE471□BF□□□KR |
| 680   |                       | 9.0 x 5.0      |             |                |               |              | HFE681□BF□□□KR |
| 1000  |                       | 11.0 x 5.5     |             |                |               |              | HFE102□BF□□□KR |
| 1500  |                       | 13.0 x 5.5     |             | HFE152□BF□□□KR |               |              |                |
| 2200  |                       | 15.0 x 5.5     |             | HFE222□BF□□□KR |               |              |                |
| 3300  |                       | 21.0 x 5.5     |             | HFE332□BF□□□KR |               |              |                |
| 4700  |                       | 21.0 x 5.5     |             | HFE472□BF□□□KR |               |              |                |
| 6800  |                       | 23.0 x 5.5     |             | HFE682□BF□□□KR |               |              |                |
|   |                       |                |             |                |               |              |                |

\* Standard lead configuration, other lead spacing and diameter available on request.

\*\* ± 10 % available on request.

| ORDERING CODE |                    |  |                          |
|---------------|--------------------|--|--------------------------|
| □             | 7th digit          | Capacitance tolerance                        | ± 10 % = K<br>± 20 % = M |
| □□□           | 10th to 12th digit | Lead configuration (See General Information) |                          |
| R             | 14th digit         | RoHS Compliant Component                     |                          |

| ORDERING INFORMATION, CERAMIC HIGH VOLTAGE DISC CAPACITORS, 8 KV (DC) |                          |               |                 |                    |                   |                 |                |
|---|--------------------------|---------------|-----------------|--------------------|-------------------|-----------------|----------------|
| C<br>(pF)   | TOL.<br>(%)              | D x s<br>(mm) | F ± 1 *<br>(mm) | d ± 0.05 *<br>(mm) | V ± 0.5 *<br>(mm) | CERAMIC<br>CODE | ORDERING CODE  |
| <b>CLASS 2 K 2000</b>   |                          |               |                 |                    |                   |                 |                |
| 100   | ± 20 %<br><br>(± 10 %)** | 9.0 x 8.3     | 12.5            | 0.8                | 4.0               | Z               | HGZ101□BP□□□KR |
| 120   |                          | 9.0 x 8.3     |                 |                    |                   |                 | HGZ121□BP□□□KR |
| 150   |                          | 9.0 x 8.3     |                 |                    |                   |                 | HGZ151□BP□□□KR |
| 180   |                          | 11.0 x 8.3    |                 |                    |                   |                 | HGZ181□BP□□□KR |
| 220   |                          | 11.0 x 8.3    |                 |                    |                   |                 | HGZ221□BP□□□KR |
| 270   |                          | 11.0 x 8.3    |                 |                    |                   |                 | HGZ271□BP□□□KR |
| 330   |                          | 13.0 x 8.3    |                 |                    |                   |                 | HGZ331□BP□□□KR |
| 390   |                          | 13.0 x 8.3    |                 |                    |                   |                 | HGZ391□BP□□□KR |
| 470   |                          | 14.0 x 8.3    |                 |                    |                   |                 | HGZ471□BP□□□KR |
| 560   |                          | 16.0 x 8.3    |                 |                    |                   |                 | HGZ561□BP□□□KR |
| 680   |                          | 16.0 x 8.3    |                 |                    |                   |                 | HGZ681□BP□□□KR |
| 820   |                          | 18.0 x 8.3    |                 |                    |                   |                 | HGZ821□BP□□□KR |
| 1000  |                          | 18.0 x 8.3    |                 |                    |                   |                 | HGZ102□BP□□□KR |
| 1200  |                          | 21.0 x 8.3    |                 |                    |                   |                 | HGZ122□BP□□□KR |
| 1500  |                          | 21.0 x 8.3    |                 |                    |                   |                 | HGZ152□BP□□□KR |
| 1800  |                          | 24.0 x 8.3    |                 |                    |                   |                 | HGZ182□BP□□□KR |
| 2200  |                          | 24.0 x 8.3    |                 |                    |                   |                 | HGZ222□BP□□□KR |

\* Standard lead configuration, other lead spacing and diameter available on request.

\*\* ± 10 % available on request.

| ORDERING CODE |                    |  |                          |
|---------------|--------------------|--|--------------------------|
| □             | 7th digit          | Capacitance tolerance                        | ± 10 % = K<br>± 20 % = M |
| □□□           | 10th to 12th digit | Lead configuration (See General Information) |                          |
| R             | 14th digit         | RoHS Compliant Component                     |                          |



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