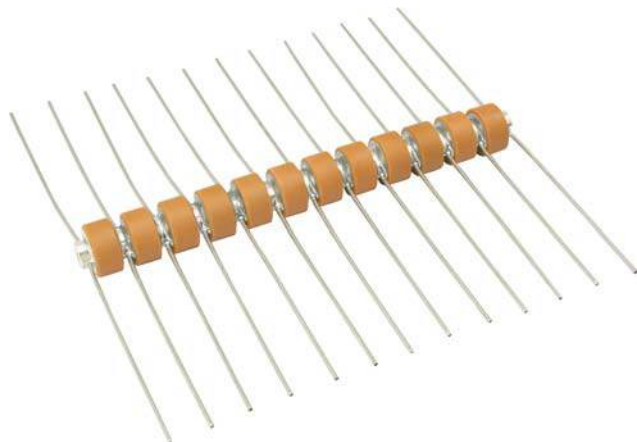


## High Voltage Ceramic Capacitor Stacks, With Leads, Class 2 Ceramic



### QUICK REFERENCE DATA

DESCRIPTION	VALUE		
Ceramic Class	2		
Ceramic Dielectric	R2005	R2000, R3000	R6000
Type	GDMQ07	GDMQ08	GDMQ10
Voltage ( $V_{DC}$ )	8000	8000	10 000
Min. Capacitance (pF)	250	125	500
Max. Capacitance (pF)	250	250	500
Mounting	Leaded		

### MATERIAL

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

Connection terminals between the discs: brass, silver plated

Lead terminals: tinned copper

### OPTIONAL HV DIODES

The capacitor stacks can be supplied completely mounted with high voltage diodes instead of the leads.

Please contact us.

### FEATURES

- Small size
- Multiple designs up to 12 stages
- Voltage ratings of the individual discs from 8 kV<sub>DC</sub> to 10 kV<sub>DC</sub>
- Stacks with diodes
- Lead (Pb)-free version on request
- 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

125 pF to 500 pF

### CAPACITANCE TOLERANCE

- 20 % / + 40 %

### CERAMIC DIELECTRIC

- R2000 (X7R)
- R2005 (X7R)
- R3000 (X7R)
- R6000 (Y5U)

### RATED VOLTAGE

- 8.0 kV<sub>DC</sub> per single disc
- 10 kV<sub>DC</sub> per single disc

### DIELECTRIC STRENGTH TEST

150 % to 160 % of rated voltage, in dielectric fluid

### DISSIPATION FACTOR

Max. 2.5 % (1 kHz)

### INSULATION RESISTANCE

- R2000: min. 100 GΩ (at 25 °C)
- R2005, R3000, R6000: min. 10 GΩ (at 25 °C)

### OPERATING TEMPERATURE RANGE

-25 °C to +85 °C

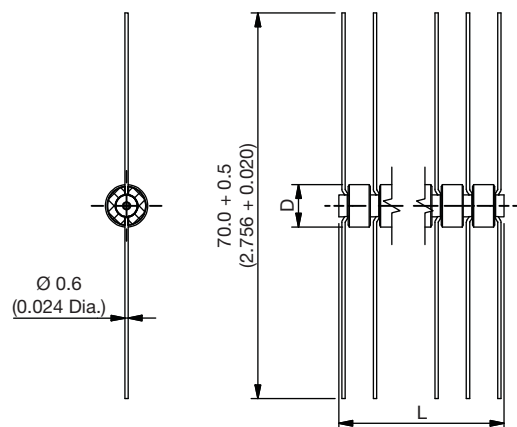
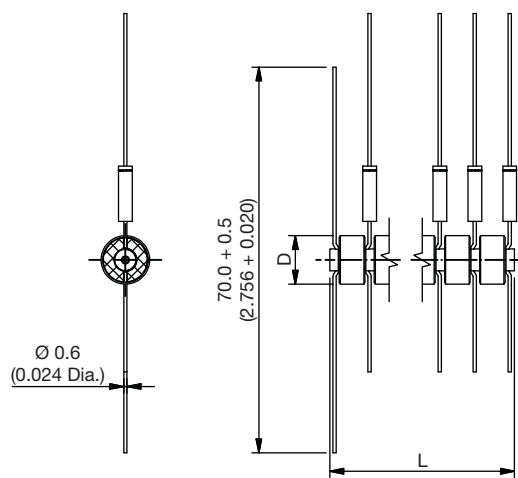


SAP PART NUMBER AND ELECTRICAL DATA							
PART NUMBER	CERAMIC	CAPACITANCE VALUES <sup>(1)</sup> (pF)	RATED VOLTAGE <sup>(1)(2)</sup> (kV <sub>DC</sub> )	TEST VOLTAGE <sup>(1)(3)</sup> (kV <sub>DC</sub> )	NO. OF DISC IN SERIES	L <sub>MAX.</sub> mm (INCH)	D mm (INCH)
TYPE GDMQ07							
RH#250P73BPZFF####	R2005 (X7R)	250 - 20 % / + 40 %	8.0	12	4	26.0 (1.024)	7.7 ± 0.2 (0.303 ± 0.008)
RH#250P73BPZFG####					5	32.0 (1.260)	
RH#250P73BPZAM####					6	38.0 (1.496)	
RH#250P73BPZFJ####					8	50.0 (1.969)	
RH#250P73BPZFK####					9	56.0 (2.205)	
RH#250P73BPZBE####					10	62.0 (2.441)	
RH#250P73BPZBF####					12	72.0 (2.835)	
TYPE GDMQ08							
RH#125P73BPZBH####	R2000 (X7R)	125 - 20 % / + 40 %	8.0	13	3	22.0 (0.866)	8.8 - 0.4 (0.346 - 0.016)
RH#125P73BPZFM####					4	28.0 (1.102)	
RH#125P73BPZFN####					5	34.5 (1.339)	
RH#125P73BPZAH####					6	41.0 (1.614)	
RH#125P73BPZFP####					8	54.0 (2.126)	
RH#125P73BPZAK####					9	60.5 (2.362)	
RH#125P73BPZFQ####					10	67.0 (2.638)	
RH#125P73BPZGA####					12	80.0 (3.150)	
RH#250P73BPZEW####	R3000 (X7R)	250 - 20 % / + 40 %	8.0	13	3	20.0 (0.787)	
RH#250P73BPZES####					4	26.0 (1.024)	
RH#250P73BPZFR####					5	32.0 (1.260)	
RH#250P73BPZEU####					6	38.0 (1.496)	
RH#250P73BPZFS####					8	50.0 (1.969)	
RH#250P73BPZFT####					9	56.0 (2.205)	
RH#250P73BPZFU####					10	62.0 (2.441)	
RH#250P73BPZFV####					12	74.0 (2.913)	
TYPE GDMQ10							
RH#500P73BHZAT####	R6000 (Y5U)	500 - 20 % / + 40 %	10	15	4	38.0 (1.496)	10.5 ± 0.4 (0.413 ± 0.016)
RH#500P73BHZAZ####					5	47.0 (1.850)	
RH#250P73BHZFW####					6	56.0 (2.205)	
RH#250P73BHZFX####					8	74.0 (2.913)	

**Notes**

- # 3rd digit: code letter of type RHS or RHD
- #### 15th to 18th digit: drawing number
- (1) Per single disc
- (2) In an insulating environment
- (3) Min. 3 s in dielectric fluid

**DIMENSIONS DATA** in millimeters (inches)

**TYPE RHS**

**TYPE RHD**

**RELATED DOCUMENTS**

General Information

[www.vishay.com/doc?22090](http://www.vishay.com/doc?22090)



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