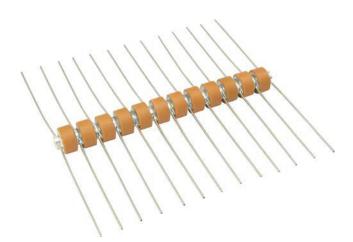
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GDMQ

Vishay Draloric

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



QUICK REFERENCE DATA							
DESCRIPTION	VALUE						
Ceramic Class	2						
Ceramic Dielectric	R2005	R2000, R3000	R6000				
Туре	GDMQ07	GDMQ08	GDMQ10				
Voltage (V <sub>DC</sub> )	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  $kV_{DC}$  to 10  $kV_{DC}$
- 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

1 For technical questions, contact: <u>cdc@vishay.com</u>



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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		I				<u> </u>	
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					L		L
RH#125P73BPZBH####		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####	1				5	34.5 (1.339)	
RH#125P73BPZAH####	R2000				6	41.0 (1.614)	
RH#125P73BPZFP####	(X7R)				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

<sup>(1)</sup> Per single disc

(2) In an insulating environment

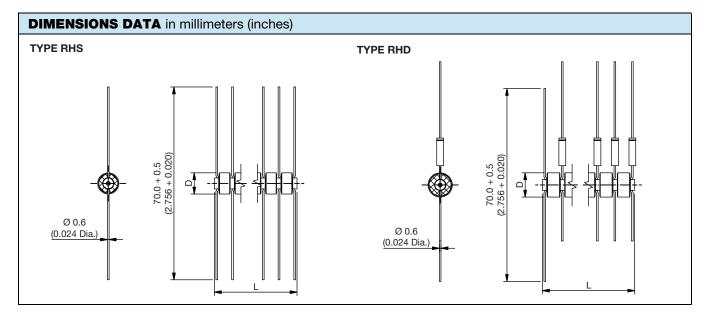
<sup>(3)</sup> Min. 3 s in dielectric fluid

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RELATED DOCUMENTS	
General Information	www.vishay.com/doc?22090



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