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GFMQ, GFWQ

Vishay Draloric

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



QUICK REFERENCE DATA						
DESCRIPTION	VALUE					
Ceramic Class	2					
Ceramic Dielectric	R2005					
Туре	GFMQ10, GFWQ10	GFMQ12, GFWQ12				
Voltage (V _{DC})	8000					
Min. Capacitance (pF)	370	500				
Max. Capacitance (pF)	370	500				
Mounting	Solder tags					

MATERIAL

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

Connection terminals between the discs: brass, silver plated

OPTIONAL TERMINALS

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

FEATURES

- Small size
- Multiple design up to 12 stages
- Voltage rating of the individual discs 8 $\rm kV_{DC}$
- 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

370 pF to 500 pF

CAPACITANCE TOLERANCE

± 20 %

CERAMIC DIELECTRIC

R2005 (X7R)

RATED VOLTAGE

 $8.0 \text{ kV}_{\text{DC}}$ per single disc

DIELECTRIC STRENGTH TEST

13 kV_{DC} per single disc, in dielectric fluid

DISSIPATION FACTOR

Max. 2.5 % (1 kHz)

INSULATION RESISTANCE

Min. 10 GΩ (at 25 °C)

OPERATING TEMPERATURE RANGE

-25 °C to +85 °C



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SAP PART NUMBER AND ELECTRICAL DATA							
PART NUMBER	CERAMIC	CAPACITANCE VALUES ⁽¹⁾ (pF)	RATED VOLTAGE ⁽¹⁾⁽²⁾ (kV _{DC})	TEST VOLTAGE ⁽¹⁾⁽³⁾ (kV _{DC})	NO. OF DISC IN SERIES	L _{MAX.} mm (INCH)	D mm (INCH)
TYPE GFMQ10							
RHS370P38BPZHA6000	R2005	370	8.0	12	10	61.5 (2.421)	10.5 ± 0.3
RHS370P38BPZHB6001	(X7R)	(± 20 %)	0.0	15	12	73.5 (2.893)	(0.413 ± 0.012)
TYPE GFWQ10							
RHS370P38BPZHC6002	R2005 (X7R)	370	370 (± 20 %) 8.0	13	10	61.5 (2.421)	10.5 ± 0.3 (0.413 ± 0.012)
RHS370P38BPZHD6003		(± 20 %)			12	73.5 (2.893)	
TYPE GFMQ12							
RHS500P38BPZHE6004	R2005 (X7B)		8.0	13	8	49.5 (1.949)	12.0 ± 0.2 (0.472 ± 0.008)
RHS500P38BPZHF6005		500 (± 20 %)			10	61.5 (2.421)	
RHS500P38BPZHG6006	()				12	73.5 (2.893)	
TYPE GFWQ12							
RHS500P38BPZHH6007	R2005 (X7R)	005 500 7B) (+ 20 %)	8.0	13	8	49.5 (1.949)	12.0 ± 0.2 (0.472 ± 0.008)
RHS500P38BPZHJ6008					10	61.5 (2.421)	
RHS500P38BPZHK6009		,,	(12	73.5 (2.893)

Notes

⁽¹⁾ Per single disc

⁽²⁾ In an insulating environment

⁽³⁾ Min. 3 s in dielectric fluid



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

Revision: 11-Sep-15

2 For technical questions, contact: <u>cdc@vishay.com</u> Document Number: 22034

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