

Vishay Draloric

High Voltage Ring Style Capacitors, Class 1 and Class 2 Ceramic



FEATURES

- · High reliability
- · Stackmounting is possible

APPLICATIONS

Ring style high voltage capacitors made from class 2 ceramic dielectric can be used as coupling and bypass capacitors, capacitors where low power ratings are required and larger capacitance changes where temperature can be tolerated.

QUICK REFERENCE DATA									
DESCRIPTION		VALUE							
Ceramic Class		2					2		
Ceramic Dielectric	R2000H (Z5U)	R6000 (Y5U)	R2000H (Z5U)	R6000 (Y5U)	R6000 (Y5U)	R85 (U2J)	R4000 (Y5U)		
Туре	HF	HR22		HR30			HR35		
Voltage (V _p)	2800	2800	3500	5600	2800	3500	2000		
Min. Capacitance (pF)	750	2000	1500	2500	5000	100	5000		
Max. Capacitance (pF)	1000	3000	1500	2500	5000	100	5000		
Mounting		Screw terminal							

MATERIAL

Capacitor elements made from class 1 or class 2 ceramic dielectric with noble metal electrodes.

FINISH

Noble metal electrode pure silver, inner and outer insulating rim completely protective lacquered.

MARKING

Type designator, capacitance value and tolerance, rated peak voltage, ceramic material code, manufacturer logo.

CAPACITANCE RANGE

100 pF to 5.0 nF

CAPACITANCE TOLERANCE

R85, R2000H: ± 20 %

R4000, R6000: -20 % to +50 %

CERAMIC DIELECTRIC

- R85 (U2J)
- R2000H (Z5U)
- R4000 (Y5U)
- R6000 (Y5U)

RATED VOLTAGE

- 2.0 kV_P
- 2.8 kV_P
- 3.5 kV_P
- 5.6 kV_P

DIELECTRIC STRENGTH TEST

300 % of rated voltage, 50 Hz, in dielectric fluid

DISSIPATION FACTOR

R85: max. 0.07 % (1 MHz)
R2000H: max. 0.5 % (1 kHz)
R4000, R6000: max. 2.5 % (1 kHz)

INSULATION RESISTANCE

Min. 50 000 M Ω (at 25 °C)

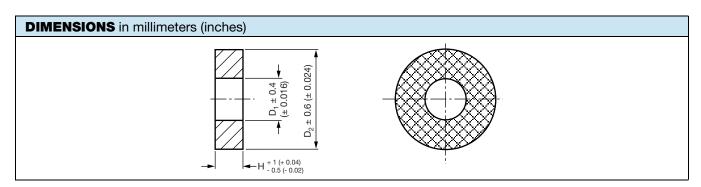
OPERATING TEMPERATURE RANGE

- Class 1: -55 °C to +85 °C
- Class 2: -55 °C to +100 °C

SAP PART NUMBER, ELECTRICAL AND DIMENSIONAL DATA							
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _P)	D ₁ mm (inch)	D ₂ mm (inch)	H mm (inch)	
TYPE HR22							
HR0022VR75138AX1	R2000H (Z5U)	750	2.8	10 (0.39)	22 (0.87)	7.5 (0.295)	
HR0022VR10238AX1	H200011 (230)	1000				5.6 (0.220)	
HR0022VR20291BB1	R6000 (Y5U)	2000				8.0 (0.315)	
HR0022VR30291BB1	H0000 (130)	3000				5.3 (0.209)	
TYPE HR30							
HR0030VT15238AX1	R2000H (Z5U)	1500	3.5			7.6 (0.295)	
HR0030VW25291BB1	R6000 (Y5U)	2500	5.6	12 (0.47)	30 (1.81)	10.0 (0.394)	
HR0030VR50291BB1	H0000 (130)	5000	2.8			5.0 (0.197)	
TYPE HR35							
HR0035VT10138BJ1	R85 (U2J)	100	3.5	12 (0.47)	35 (1.38)	7.0 (0.276)	
HR0035BB50291BA1	R4000 (Y5U)	5000	2.0	12 (0.47)		5.2 (0.205)	

Note

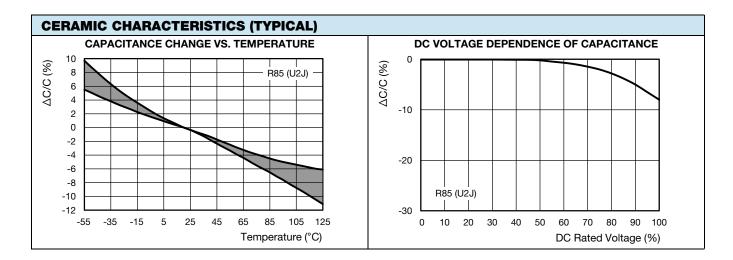
• The surface temperature during operation must not exceed +100 °C



MOUNTING GUIDELINES

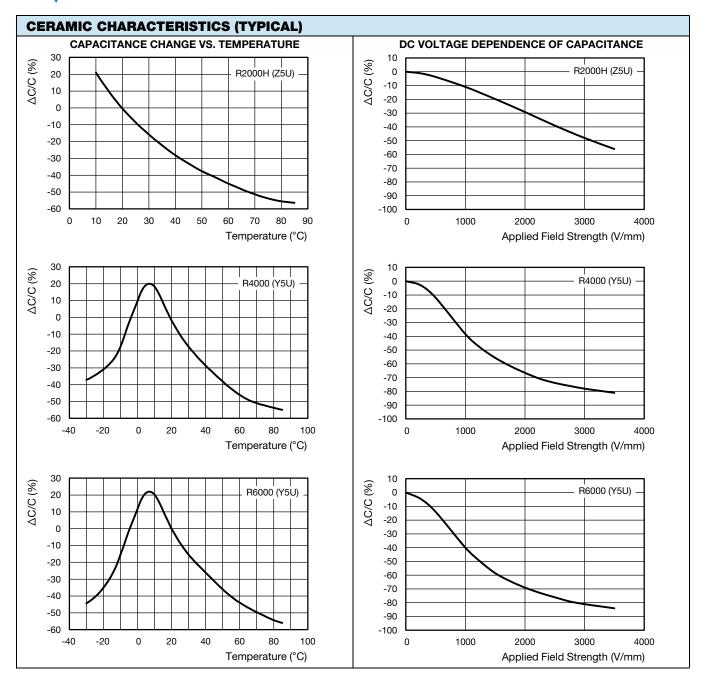
Ring style capacitors can be mounted in series.

- Avoid installation in which too much pressure or torque is applied to the capacitor elements
- Use spring washers in order to prevent the generation of physical stress to the capacitor elements and noble metal electrodes
- The capacitor elements must not be used as a mechanical support for other devices or components





Vishay Draloric



RELATED DOCUMENTS				
General Information	www.vishay.com/doc?22071			



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