Vishay Draloric

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



QUICK REFERENCE DATA									
DESCRIPTION	VALUE								
Туре	HR22	HR30 HR35							
Ceramic Class	2	2	1	2					
Ceramic Dielectric	R2000H, R6000	R2000H, R6000	R85	R4000					
Voltage (V _p)	2800	2800, 3500, 5600	3500	2000					
Min. Capacitance (pF)	750	1500	100	5000					
Max. Capacitance (pF)	3000	5000	100	5000					
Mounting	Screw mounting								

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.

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.

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

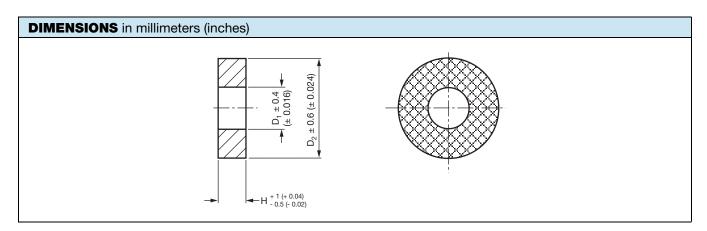
- Class 1: 55 °C to + 85 °C
- Class 2: 55 °C to + 100 °C

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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		1000				5.6 (0.220)			
HR0022VR20291BB1	R6000 (Y5U)	2000				8.0 (0.315)			
HR0022VR30291BB1		3000				5.3 (0.209)			
TYPE HR30		•							
HR0030VT15238AX1	R2000H (Z5U)	1500	3.5	12 (0.47)	30 (1.81)	7.6 (0.295)			
HR0030VW25291BB1	R6000 (Y5U)	2500	5.6			10.0 (0.394)			
HR0030VR50291BB1		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			5.2 (0.205)			

Note

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

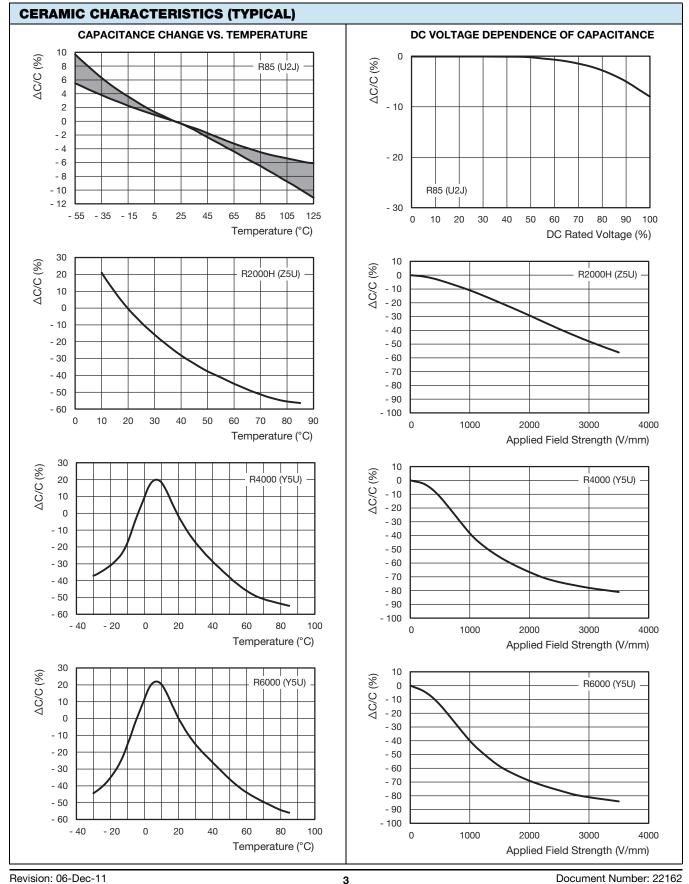


MOUNTING GUIDELINES

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









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