

High Voltage Disc Capacitors, 20 kV_{DC} Screw Mounting, Class 2 Ceramic



QUICK REFERENCE DATA					
DESRIPTION	VALUE				
Туре	HPC	HPD			
Ceramic Class	2	2			
Ceramic Dielectric	R2000H				
Voltage (V _P)	20	000			
Min. Capacitance (pF)	350				
Max. Capacitance (pF)	50	00			
Mounting	Screw n	nounting			

MATERIAL

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

Connection terminals: thread terminal, brass, silver plated

Allowable torque: 5.0 Nm (44 lbf · in)

FINISH

The capacitor body of the HPD type is completely protective lacquered. The HPC type feature a coating made from silicone elastomer to minimize the adverse effect of moisture, dust and other impurities in the working environment.

MARKING

Capacitance value and tolerance, manufacturer logo.

FEATURES

- · High reliability
- Wide range of capacitance values

APPLICATIONS

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

CAPACITANCE RANGE

350 pF to 5.0 nF

CAPACITANCE TOLERANCE

± 20 %

CERAMIC DIELECTRIC

R2000H (Z5U)

RATED VOLTAGE

20 kV_{DC} or 15 kV_{RMS} (up to 120 Hz)

DIELECTRIC STRENGTH TEST

25 kV_{RMS}, 50 Hz, 5 minutes

DISSIPATION FACTOR

Max. 0.5 % (1 MHz)

INSULATION RESISTANCE

Min. 50 000 M Ω (at 25 °C)

OPERATING TEMPERATURE RANGE

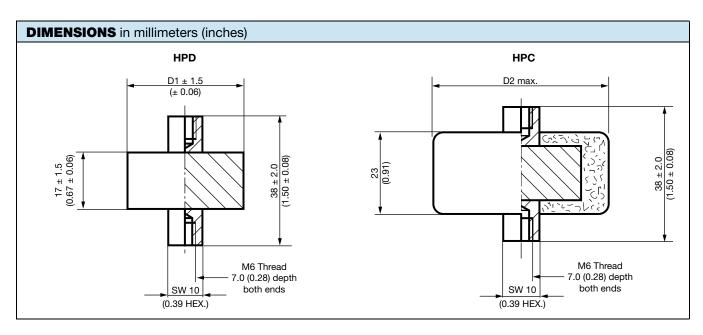
-25 °C to +85 °C



SAP PART NUMBER, ELECTRICAL AND DIMENSIONAL DATA							
PART NUMBER	CERAMIC	CAPACITANCE VALUES (pF)	RATED VOLTAGE (1) (kV _{DC})	RATED VOLTAGE (1) (kV _{AC})	RATED RF-CURRENT (2) (A _{RMS})	D ₁ mm (inch)	D ₂ max. mm (inch)
TYPE HPC							
HPC050WP35138AX1	R2000H (Z5U)	350					
HPC050WP50138AX1		500					50 (1.97)
HPC050WP75138AX1		750			6.0 max.		
HPC050WP10238AX1		1000	20	(15 kV _{RMS}			
HPC060WP15238AX1		1500	20	up to 120 Hz)			60 (2.36)
HPC060WP20238AX1		2000					
HPC070WP30238AX1		3000					70 (2.76)
HPC090WP50238AX1		5000					90 (3.45)
TYPE HPD							
HPD021WP35138AX1	R2000H (Z5U)	350		(15 kV _{RMS} up to 120 Hz)	6.0 max.	21 (0.83)	
HPD025WP50138AX1		500				25 (0.98)	
HPD030WP75138AX1		750	20			30 (1.18)	
HPD035WP10238AX1		1000				35 (1.38)	
HPD043WP15238AX1		1500				43 (1.69)	
HPD050WP20238AX1		2000				50 (1.97)	
HPD059WP30238AX1		3000				59 (2.32)	
HPD075WP50238AX1		5000				75 (2.95)	

Notes

- The type HPD must be operated in a high insulation environment, e.g. oil or inert gas. When operate this type in free air the rated voltage must be reduced to 7.0 kV_{DC}.
- (2) To an max. ambient temperature +60 °C

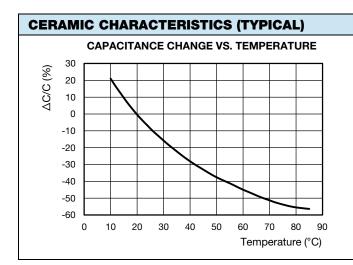


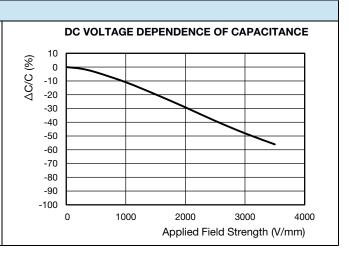


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MOUNTING GUIDELINES

- Avoid installation in which too much torque is applied to the capacitor elements. Screw torque limit must be 5.0 Nm (44 lbf · in.)
- Do not use screws whose thread is longer than specified in the datasheet
- The capacitor elements must not be used as a mechanical support for other devices or components





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



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