



RF Power Barrel Capacitors, Class 1 Ceramic



QUICK REFERENCE DATA					
DESCRIPTION	VALUE				
Ceramic Class	1	1			
Ceramic Dielectric	NP0 (C0G)	N750 (U2J)			
Туре	5FCA, 5FDA, 5FEA, 5FFA, 5FGA, 5FHA	5FCU, 5FDU, 5FEP, 5FFU, 5FGU, 5FHU			
Voltage (V _{DC})	5000	5000			
Min. Capacitance (pF)	3.0	10			
Max. Capacitance (pF)	20	40			
Mounting	Axial or screw terminal				

MATERIAL

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

Connection terminals:

- Axial wire leads, tinned copper (style FC., FD., FE.)
- Thread terminal, brass, silver plated (style FF., FG., FH.)

Allowable torque: 0.34 Nm (3.0 lbf in)

FINISH

Capacitor body completely protective lacquered.

MARKING

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

FEATURES

- · Very small size make it well suited in mobile equipment
- Geometry minimizes inductance, optimizes voltage withstand and maximizes heat radiation
- Available with thread terminals or solderable wire leads

APPLICATIONS

- Radio communication equipment
- · Small broadcasting equipment
- RF power supply

CAPACITANCE RANGE

3.0 pF to 40 pF

CAPACITANCE TOLERANCE

 $< 5 pF: \pm 0.25 pF; \pm 0.5 pF$ $\geq 5 pF: \pm 10 \%; \pm 5 \%$

CERAMIC DIELECTRICS

- NP0 (C0G)
- N750 (U2J)

RATED VOLTAGE

 5.0 kV_{DC}

DIELECTRIC STRENGTH TEST

150 % of rated DC voltage

DISSIPATION FACTOR

Max. 0.2 % (1 MHz)

INSULATION RESISTANCE

Min. 100 000 M Ω (at 25 °C)

OPERATING TEMPERATURE RANGE

-55 °C to +100 °C

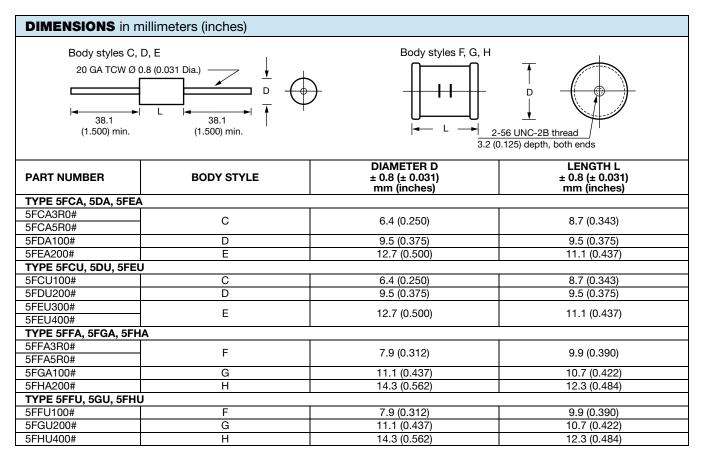




SAP PART NUMBER AND ELECTRICAL DATA						
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _{DC})	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})	
TYPE 5FCA, 5DA, 5FE/	4					
5FCA3R0#		3.0		2.3	1.5	
5FCA5R0#	NP0	5.0	5.0	3.8	1.6	
5FDA100#	(C0G)	10		4.2	2.3	
5FEA200#	` '	20		7.6	3.4	
TYPE 5FCU, 5DU, 5FE	Ü					
5FCU100#		10		2.3	1.5	
5FDU200#	N750 (U2J)	20	5.0	3.8	1.6	
5FEU300#		30		4.0	2.0	
5FEU400#		40		4.2	2.3	
TYPE 5FFA, 5FGA, 5FF	·Α					
5FFA3R0#		3.0	5.0	2.3	1.5	
5FFA5R0#	NP0 (C0G)	5.0		3.8	1.6	
5FGA100#		10		4.2	2.3	
5FHA200#		20		7.6	3.4	
TYPE 5FFU, 5GU, 5FH	Ú		•			
5FFU100#	NZEO	10		2.3	1.5	
5FGU200#	- N750 - (U2J)	20	5.0	3.8	1.6	
5FHU400#		40		4.2	2.3	

Notes

- #8th digit of the part number: capacitance tolerance code \pm 0.25 pF = C, \pm 0.5 pF = D, \pm 5 % = J, \pm 10 % = K
- (1) At rated voltage. Data presented is based on a minimum body temperature rise of 30 °C at +25 °C



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



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Vishay:

<u>5FEU400K</u> <u>5FFA5R0K</u> <u>5FCA5R0K</u> <u>5FGA100K</u> <u>5FHA200K</u> <u>5FFA3R0K</u> <u>5FGU200K</u> <u>5FCU100K</u> <u>5FEA200K</u> 5FHU400K 5FFU100K 5FCA3R0K 5FDA100K 5FDU200K 5HKZS10