



RF Power Barrel Capacitors Class 1 Ceramic





QUICK REFERENCE DATA						
DESCRIPTION	VALUE					
Ceramic Class	1	1				
Ceramic Dielectric	C0G (NP0)	U2J (N750)				
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	Through hole or screw mounting					

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 laquered

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

- C0G (NP0)
- U2J (N750)

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

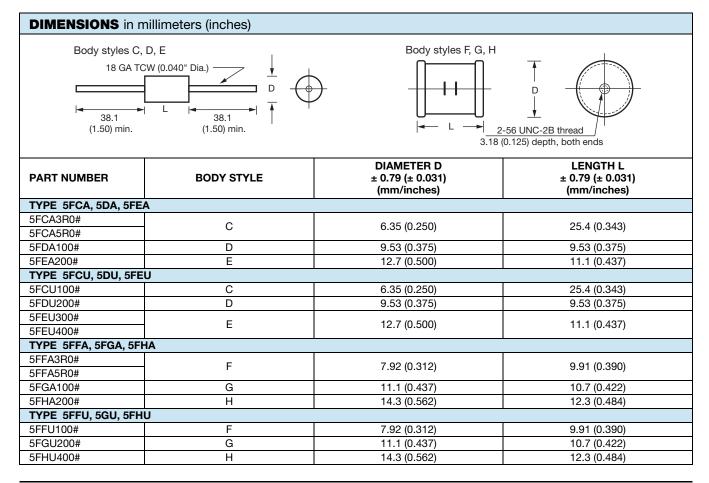




SAP PART NUMBER AND ELECTRICAL DATA							
PART NUMBER	CERAMIC	CAP. VALUES (pF)	RATED VOLTAGE (kV _{DC})	RATED POWER ⁽¹⁾ (kvar)	RATED CURRENT (A _{RMS})		
TYPE 5FCA, 5DA, 5FE	Ā						
5FCA3R0#		3.0		2.3	1.5		
5FCA5R0#	C0G (NP0)	5.0	5.0	3.8	1.6		
5FDA100#		10		4.2	2.3		
5FEA200#		20		7.6	3.4		
TYPE 5FCU, 5DU, 5FE	Ū						
5FCU100#	110.1	10	5.0	2.3	1.5		
5FDU200#	U2J (N750)	20		3.8	1.6		
5FEU300#		30		4.0	2.0		
5FEU400#		40		4.2	2.3		
TYPE 5FFA, 5FGA, 5F	HA						
5FFA3R0#	C0G (NP0)	3.0	5.0	2.3	1.5		
5FFA5R0#		5.0		3.8	1.6		
5FGA100#		10		4.2	2.3		
5FHA200#		20		7.6	3.4		
TYPE 5FFU, 5GU, 5FF	iU						
5FFU100#	U2J (N750)	10	5.0	2.3	1.5		
5FGU200#		20		3.8	1.6		
5FHU400#		40		4.2	2.3		

Notes

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





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