



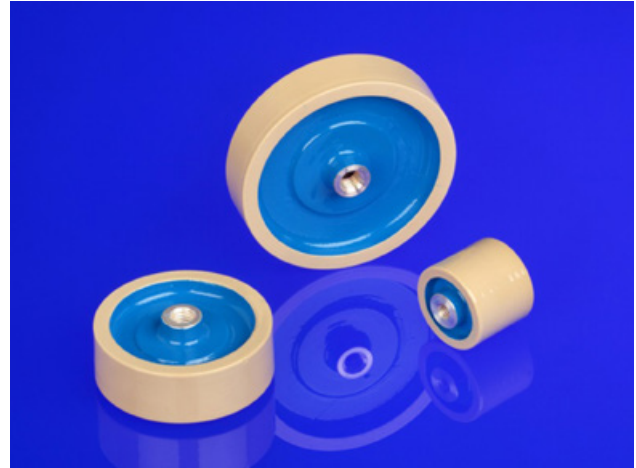
RF Decoupling Class 2

Capacitors 3.5 kV Discs

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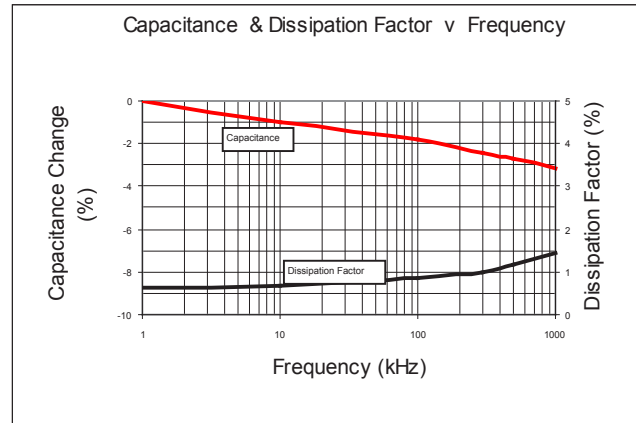
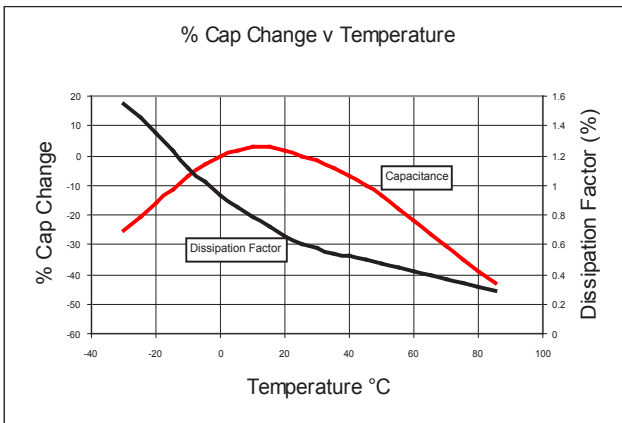
The CeramTec Group is a world leader in the design and manufacture of complex electronic ceramic components and assemblies used in a wide range of applications and cutting edge technologies. CeramTec UK specialises in the development and production of dielectric and ferroelectric materials and components. This disc range is designed for high frequency decoupling applications and as such complements CeramTec's extensive range of CLASS 1 RF Power Capacitors. It is fabricated from a Y5U CLASS 2 ceramic dielectric material.

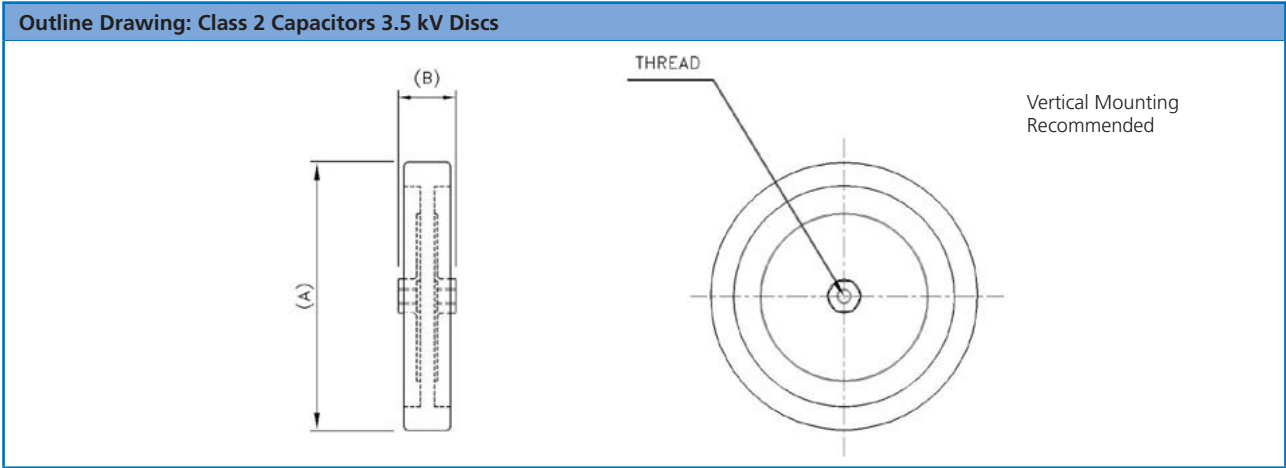


APPLICATION

- HF Decoupling Circuits

Material/Electrical Specification	
Capacitance Range	1000 – 15000pF (see table)
Capacitance Tolerance	+40 % -20 %
Capacitance Temperature Characteristic	Y5U (EIA) See curve (+22% -56% from -30°C to +85°C)
Rated Voltage (dc+acpk)	3.5 kVpk (see table)
Test Voltage (50Hz)	5kVrms/60sec
RF kVAr load rating	See table
RF current rating	See table
Operating Temperature Range	-25°C +85°C
Maximum Relative Humidity	75 %





Electrical Characteristics – CLASS 1 Ceramic Discs

Type No	Cap Value pF	Temp Charc	Rated (ACpk + DC) kVpk	Rated AC kVpk	Test 50 Hz kVrms	Max POWER Rating (kVAr)	Max Current Rating (A rms)	A nom (mm)	B nom (mm)	Thread Size (mm)
855	1000	Y5U	3.5	3.5	5	0.25	5	23	17-24	M4
856	2200	Y5U	3.5	3.5	5	0.25	9	33	17-24	M4
856	3300	Y5U	3.5	3.5	5	0.5	9	33	17-24	M4
857	4700	Y5U	3.5	3.5	5	1	15	45	17-24	M6
857	6800	Y5U	3.5	3.5	5	1	15	45	17-24	M6
858	10000	Y5U	3.5	3.5	5	1	15	57	17-24	M6
858	15000	Y5U	3.5	3.5	5	1	15	57	17-24	M6

The above RF load conditions are based on the maximum body temperature rise of 45°C from an ambient temperature of 30°C.



The measured values mentioned before were determined for test samples and are applicable as standard values. The values were determined on the basis of DIN-/DIN-VDE standards and if these were not available, on the basis of CeramTec standards. The values indicated must not be transferred to arbitrary formats, components or parts featuring different surface qualities. They do not constitute a guarantee for certain properties. We expressly reserve the right to make technical changes.

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