

CERAMIC DISC CAPACITORS-CLASS 3

SPECIFICATIONS

1. Operating temperature range: -25 to 85
2. Capacitance: Within the specified tolerance at 25 , 1MHz, 0.1 to 1V rms.
3. Capacitance tolerance:±20% (M), +80,-20%(Z)
4. Voltage proof (flash test): No breakdown at 2.5 times rated working voltage for 1 sec.
5. tan (D,F): 5% max,at 25 ,1MHz, 0.5 to 1V rms.
6. Insulation resistance: 10,00M min. at 25V, or 50V ,60 sec.
7. Temperature characteristics :

Temp. Charac..	Max. Cap. change from 25 value over Temp. range -25 to 85 shall be:	Equivalent to	
		IEC	EIA
D	+20-30%	2D4	Y5T
E	+20-56%	2E4	Y5U
F	+30-80%	2F4	Y5V

8. Life test (endurance): Capacitors shall be subjected to life test for 500 hours at 85 ±3 and 25V or 50V DC. After removal from the oven, capacitors shall be cooled 1 to 2 hours to standard condition for testing, and then measured.
 Cap. change: ±30% of intial value
 Tan (D.F.):7.5% max.
 Insulation resistance:50V:100M min.
 25V:0.01-0.22 μ F:100M min. 0.47 μ F 50m min
9. Humidity life test (damp heat, accelerated): Capacitors shall be subjected to humidity life test 500 hours at 40±20 , 90 to 95% RH, and 25V or 50V DC. After removal from the oven, capacitors shall be Cooled 1 to 2 hours to standard condition for testing, and then measured..
 Cap. change: ±30% of intial value
 Tan (D.F.):7.5% max
 Insulation resistance: 50V:100 M min.
 25V:0.01-0.22 μ F:100 M min.0.47 μ F 50 M min

DIAMETERS AND RATED CAPACITANCE RANGE

Max. Diameter Mm(inch)	D(2D4 Y5T)			E(2E4 Y5U)			F(2F4 Y5V)		
	25 V	50V	Tolerance	25 V	50V	Tolerance	25 V	50V	Tolerance
5.0(.197)	.001-.01	.001-.005	M	.01-.022	.001-.01	M.Z.	.01-.022	.01-.022	M.Z.
6.0(.236)	.01-.022	.005-.01		.022-.04	.01-.002		.022-.05	.022-.05	
7.5(.295)				.04-.05			.05-.1		
8.5(.335)	.022-.05	.01-.022		.05-.1	.022-.05			.05-.1	
10(.394)				.1-.15	.05-.1		.1-.22		
12(.472)	.05-.1	.022-.068		.15-.22			.22-.33	.1-.22	
15(.591)		.1		.33	.22		.47	.33	

ORDERING TERMINOLOGY:

SC45 _____ _____ _____ _____ Y _____

(1) (2) (3) (4) (5) (6) (7)

(1) Ceramic disc capacitor, class 3

(2) Temp. characteristics

(3) 1H-50V,1E-25V,1C-18V

(4) Rated capacitance

(5) Capacitance tolerance

(6) Grade

(7) P-Taped straight lead

B-Bulk pack, straight leads

F-Lead formed to customer spec