

CERAMIC DISC CAPACITORS-(S.C.) CLASS 3 TYPE III

FEATURES

- Ultra large capacitance in small size
- Non linear temperature coefficient of capacitance

Part Code Designation

Example	S	B	1C	104	K	-	K	5	5	5	B
	(1)	(2)	(3)	(4)	(5)		(6)	(7)	(8)	(9)	(10)

1. Class III—type ‘S’

2. Temperature coefficient (Ref. Fig 2)

Code	Temp. Range	Cap. Change	EIA Code
B	-25°C +85°C	±10%	Y5P
E		+22%	Y5T
		-33%	
F		+22%	Y5U
		-56%	
		+30%	Y5V
	-80%		

3. Rated Voltage(D.C.)

Code	Voltage
1C	16V
1E	25V
1H	50V

4. Rated capacitance

Code	Cap. (PF)
103	10,000PF
223	22,000PF
473	47,000PF
104	100,000PF
224	220,000PF

5. Tolerance on rated capacitance

Code	Tolerance	16V-50V
K	±10%	B (Y5P)
M	±20%	E (Y5T, Y5U)
Z	+80% -20%	F (Y5V)

6. Lead Shape. (Ref. Fig. 3.)

Code	Type	
K	Bulk	Short Kink
S		Short Straight
L		Long Straight
A	Taping	Inside Kink
B		Straight

7. Lead Spacing. (F)

Code	Dimension (mm)		
	K	S	L
2	---	2.5±0.8	2.5±0.8
5	5.0±0.8	5.0±0.8	5.0±0.8
6	---	6.3±0.8	6.3±0.8
7	---	7.5±0.8	7.5±0.8
0	10.0±0.8	---	10.0±0.8

8. Lead Length. (L)

Code	Dimension (mm)		
	K	S	L
5	5.0±0.8	5.0±0.8	
6	6.3±0.8	6.3±0.8	
0	10.0±0.8	10.0±0.8	
1	---	---	25min

9. Lead Wire.(d)

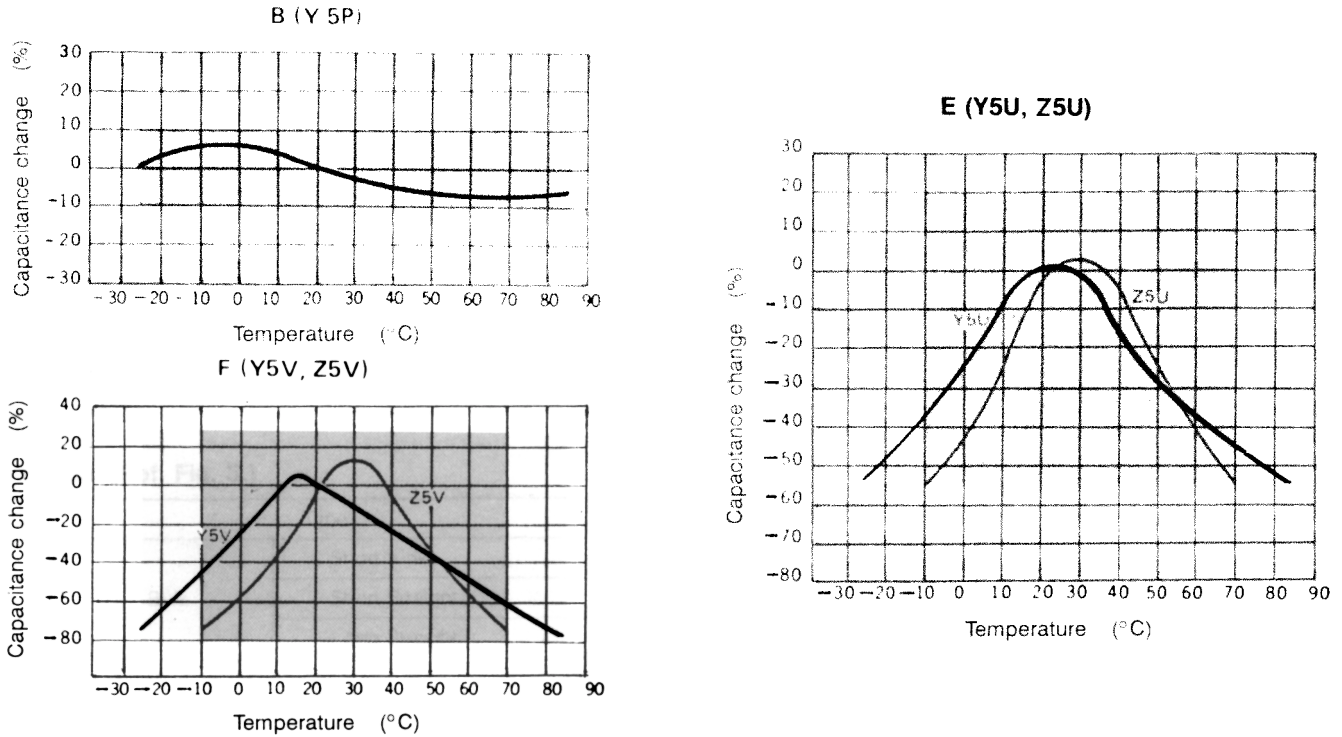
Code	Dia (φmm)	Rated Voltage (D.C.)
5	0.5±0.05	16V-50V
6	0.6±0.05	16V-50V

10. Package

Code	Package	Q'ty
B	Bulk	1000pcs
A	Ammo Pack	2000pcs
R	Tape Reel	2500pcs

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Fig.2 (T.C. %)



Dimension & Capacitance Range

Dia. (D) max	Dimension(mm)			Capacitance Range(PF)									
	Lead Spacing (F)			16V			25V			50V			
	K	S	L	B	E	F	B	E	F	B	E	F	
5	5.0±0.8 to 10.0±0.8	2.5±0.8 to 10.0±0.8	2.5±0.8 to 10.0±0.8	---	473	103-473	103	103-223	103-104	103	103-223	103-223	
6				---	---	104	---	473	104	---	---	---	333-473
7				---	104	---	223	104	---	---	473	104	---
8				---	---	---	333	---	---	223	104	---	---
10				---	224	224	473	---	224	333	---	---	
11				---	---	---	104	---	---	---	---	---	
12	---	---	---	---	---	---	---	---	---	473	---	---	

SPECIFICATION & TEST

No.	Item	Performance	Test Method
1.	Visual & Mechanical	To meet the specification	The product shall be inspected for visible evidence of defect
2.	Marking	To be clear and legible	Marking shall be tested with acetone
3.	Voltage Proof (Between terminal)	No failure	Capacitor shall withstand, for not greater than 5 second, a D.C. test voltage of 2.5times rated voltage. Charging current shall be 10mA max
4.	Insulation resistance	12V/16V-100MΩ 25V/50V-1000MΩ	Shall be measured 1 minute after with 10±1V
5.	Capacitance	To be within the specified tolerance	Test frequency : 1KHz ±100Hz Test voltage shall not exceed 5Vrms at 25±2°C

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6. Dissipation Factor (Tan δ) (%)	Characteristic B, E : 2.5% max F : 5% max	Same condition as above (Item 5)
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