

SEMI-CONDUCTIVE CERAMIC CAPACITOR SC TYPE- (CLASS 3)

The ceramic capacitors use ceramic semiconductors of boundary insulation structure. They are suitable for use in transistorized or other low voltage electronic circuits for by-pass, coupling or frequency determination, in which dielectric losses, high insulation resistance and capacitance stability are not of major consideration.

1. Temperature Characteristics

Operating Temp. Range	Symbol	Cap. Change Range	Symbol
-25 °C ~ +85 °C	Y5	±10%	P
		±15%	R
		+22-33%	T
		+22-56%	U
		+22-82%	V

**2. Rated Working Voltage:(DC)
16V, 25V, 50V**

3. Capacitance Tolerance

Temp. Charac.	Tolerance
Y5P	K(± 10%), M(± 20%).
Y5R	
Y5T	M(± 20%), Z(+80-20%).
Y5U	
Y5V	

4. Insulation Resistance

W.V.	Cap.	I.R.(MΩMin.)	
		S/L	B/L
16V	~0.1 μF	100	10
	0.1 μF up	10/C	1/C
	~0.02 μF	1000	.
25V.50V	0.02 μF up	20/C	
25V.50V	~0.1 μF	100	
	0.1 μF up	10/C	

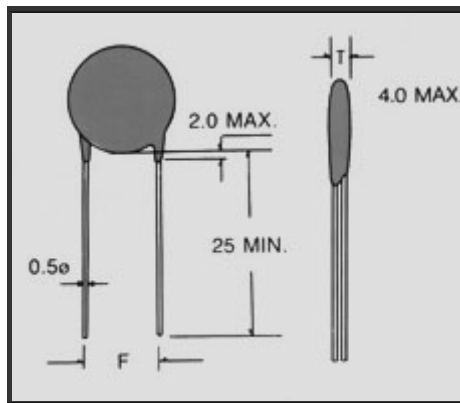
C=μF VALUE

S/L: SURFACE LAYER
 B/L: BOUNDARY LAYER

5. Standard Measure Condition

ITEM		16V	25V	50V
Test Paarameters		1 KHz 0.1 Vrms Mas. 25 °C		
Dielectric Strength		32V DC	62.5V Dc	125V Dc
I.R. Testing Voltage		16V DC	25V DC	50VDC
DF(%)	S/L.	7.5	5	5
	Max.	B/L/.	2.5	1.5

6. Dimension & Cap. Range:



W.V.	Capacitance(µF)					Dimension(mm)	
	Y5P	Y5R	Y5T	Y5U	Y5V	D max.	F
16V (IC)	-	{ 0.022	{ 0.022	{ 0.047	{ 0.047	5.0	2.5 ± 0.5
	-	0.047	0.047	0.1	0.1	6.3	
	-	0.1	0.1	-	0.22	8.5	5.0 ± 0.8
	-	0.15	-	0.22	-	10.5	
25V (IE)	{ 0.01	{ 0.01	{ 0.022	-	0.047	5.0	2.5 ± 0.5
	0.022	0.022	0.047	-	0.1	6.3	
	0.047	0.047	0.1	0.1	0.22	8.5	5.0 ± 0.8
	0.1	0.1	-	-	-	10.6	
50V (IH)	0.01	-	-	-	0.022	5.0	2.5 ± 0.5
	-	-	-	0.047	0.047	6.3	
	0.022	-	0.047	-	0.1	8.5	5.0 ± 0.8
	0.047	-	0.1	0.1	-	10.5	