

CERAMIC DISC CAPACITOR

Suntan®

CLASS I TEMPERATURE COMPENSATION

TS15



FEATURES

- Linear temperature coefficient of capacitance.
- High stability of capacitance.
- Low loss at wide ranfe of frequency.

S P E C I F I C A T I O N S	
OPERATING TEMPERATURE RANGE	-25°C TO +85°C
RATED WORKING VOLTAGE	DC 50V, 500V
TEST VOLTAGE	3 times of the rated voltage
CAPACITANCE	Within the tolerance at 1 MHz, 1 ± 0.2 Vrms. 25°C
Q FACTOR	At 1 MHz, 1 ± 0.2 Vrms. 25°C
INSULATION RESISTANCE	$C \geq 30\text{pF} \dots Q \geq 1,000$ $C < 30\text{pF} \dots Q \geq 400+20^\circ\text{C}$ (C: Rated capacitance) 10,000 MΩmin.

Rated Volt. (VDC)	Temp. Char.	Capacitance		Dimensions (mm)		
		Range (pF)	Tolerance	D Ø max	T max	F
50	CH 0±60 PPM/°C (NPO)	0.5 ~ 47	±0.25pF & ±0.5pF (Under 10pF)	5.5	3.5	5.0
		50 ~ 75		6.5		
		82 ~ 100		7.5		
		120 ~ 150	±5% & ±10% (Over 10pF)	8.5	10.5	5.9, 10.0
		180 ~ 270		10.5		
		300 ~ 390		12.5		
50	SL +350 ~ -1000PPM/°C	10 ~ 120	±5% & ±10%	5.5	3.5	5.0
		150 ~ 240		6.5		
		270 ~ 330		7.5		
		360 ~ 470		8.5		
		500 ~ 820		10.5		

CLASS II HIGH DIELECTRIC CONSTANT

FEATURES

- Large capacitance in small sizes.
- Non liner temperature coefficient of capacitance.

S P E C I F I C A T I O N S	
RATED WORKING VOLTAGE	DC 50V, 500V
TEST VOLTAGE	2.5 times of the rated voltage
CAPACITANCE	Within the tolerance at 1 MHz, 1 ± 0.2 Vrms. 25°C
DISSIPATION FACTOR ($\tan \delta$)	Y5P, Z5U : $\tan \delta \leq 2.5\%$ Z5V : $\tan \delta \leq 5\%$
INSULATION RESISTANCE	10,000M Ω or 200M Ω μ F, whichever is the smaller

Rated Volt. (VDC)	Temp. Char.	Capacitance		Dimensions (mm)		
		Range (pF)	Tolerance	D Ø max	T max	F
50	B ±10% (Y5P)	100 ~ 2000	±10% & ±20%	5.5	3.5	5.0
		2200 ~ 2700		6.5		
		3000 ~ 3300		7.5		
		3900 ~ 4700		8.5		
		5600 ~ 6800		10.5		
		10000				
50	E +22 ~ -56% (Z5U)	2200 ~ 3300	±20% & +80-20%	5.5	3.5	5.0
		4700 ~ 5000		6.5		
		5600 ~ 6800		7.5		
		8200		8.5		
		10000		10.5		
		12000 ~ 15000				
50	F +22 ~ -82% (Z5V)	18000 ~ 20000	+80-20%	5.5	3.5	5.0
		22000 ~ 30000		6.5		
		33000 ~ 40000		7.5		
		4700 ~ 5000		8.5		
		10000 ~ 15000		10.5		
50	F +22 ~ -82% (Y5V)	18000 ~ 20000	±20% & +80-20%	4.0 ~ 5.0	3.5	5.0
		22000		6.0		
				7.0		

Note: Specification are subject to change without notice. For more detail and update, please visit our website.