

CERAMIC DISC CAPACITOR

Suntan®

CLASS I TEMPERATURE COMPENSATION

TS15



FEATURES

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

SPECIFICATIONS

OPERATING TEMPERATURE RANGE	-25°C TO +85°C
RATED WORKING VOLTAGE	DC 50V, 100V, 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 C≥30pFQ≥1,000 C<30pFQ≥400+20°C (C: Rated capacitance)
INSULATION RESISTANCE	10,000 MΩmin.

Rated Volt. (VDC)	Temp. Char.	Capacitance		Dimensions (mm)		
		Range (pF)	Tolerance	D Ø max	T max	F±1mm
50	CH 0±60 PPM/°C (NPO)	0.5 ~ 47	±0.25pF & ±0.5pF (Under 10pF)	5.5	3.5	5.0, 5.08, 2.54
		50 ~ 75		6.5		
		82 ~ 100		7.5		
		120 ~ 150	±5% & ±10% (Over 10pF)	8.5		
		180 ~ 270		10.5		
		300 ~ 390		12.5		
50	SL +350 ~ -1000PPM/°C	10 ~ 120	±5% & ±10%	5.5	3.5	5.0, 5.08, 2.54
		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 linear temperature coefficient of capacitance.

SPECIFICATIONS

RATED WORKING VOLTAGE	DC 50V, 100V, 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 δ)	Y5P, Z5U : tan δ ≤2.5% Z5V : tan δ ≤5%
INSULATION RESISTANCE	10,000M Ω or 200M Ω μF, whichever is the smaller

Rated Volt. (VDC)	Temp. Char.	Capacitance		Dimensions (mm)		
		Range (pF)	Tolerance	D Ø max	T max	F±1mm
50	B ±10% (Y5P)	100 ~ 2000	±10% & ±20%	5.5	3.5	5.0, 5.08, 2.54
		2200 ~ 2700		6.5		
		3000 ~ 3300		7.5		
		3900 ~ 4700		8.5		
		5600 ~ 6800 10000		10.5		
50	E +22 ~ -56% (Z5U)	2200 ~ 3300	±20% & +80-20%	5.5	3.5	5.0, 5.08, 2.54
		4700 ~ 5000		6.5		
		5600 ~ 6800		7.5		
		8200 10000		8.5		
		18000 ~ 20000 22000		10.5		
50	F +22 ~ -82% (Z5V)	4700 ~ 5000	+80-20%	5.5	3.5	5.0, 5.08, 2.54
		10000 ~ 15000		6.5		
		18000 ~ 20000		7.5		
		22000 ~ 30000		8.5		
		33000 ~ 40000		10.5		
50	F +22 ~ -82% (Y5V)	4700 ~ 10000	±20% & +80-20%	4.0 ~ 5.0	3.5	5.0, 5.08, 2.54
		12000 ~ 20000		6.0		
		22000		7.0		

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