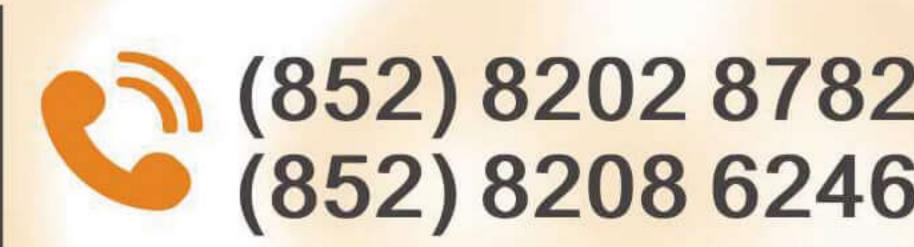


Suntan® Technology Company Limited







CERAMIC DISC CAPACITOR - TS15

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

S	P	E	C	1	F	1	C	A	1	1	0	N	5		
OPERA	TING TEM	PERATURE	RANGE	-40°C to+	85℃										
RATED	VOLTAGE			DC 500V											
CAPAC	ITANCE A	ND DISSIPA	TION	SL/NPO: 2	5℃、1±0.1	MHz、1.0V	rms				5	002			
FACTO	R TESTINO	G CONDITIC	N	Y5P/Y5U/	Y5V: 25℃、	1±0.1MHz	、1.0Vrms					Ton .			
DICCID	ATION EAC	TOP (tons)		SL/NPO:≤0	0.15%										
DISSIF	ATION FAC	TOR (tanδ)		Y5P/Y5U/	Y5V:≤2.5%										
WITHS	TAND VOL	TAGE		1.5U _R +500	V(DC)										
INICITI	ATION DEC	ICTANICE (I	D \	SL/NPO: I	R≥10000MΩ	2									
INSULA	ALION KES	ISTANCE (I	.K.)	Y5P/Y5U/	Y5V: IR≥40	$\Omega M00$									
TEMPE	ERATURE C	CHARACTER	RISTIC	SL, NPO,	Y5P, Y5U, Y	5V									

HIGH VOLTAGE CERAMIC CAPACITOR - TS16

· Use for coupling, and by-pass circuit there are a stable and high reliability products

S	P	Œ	C	I	F	I	C	A	T	I	O	N	5
OPERAT	ING CON	DITION RAN	IGE	-25°C to -	+85°C								
RATED V	WORKING	3 VOLTAGE		1 KV – 15	5 KVDC								
CAPACIT	TANCE RA	ANGE		100pF – 1	0,000pF			75kg					
TEST VC	OLTAGE			U _R ≤500V	$U=2.5U_{R}$								
				U _R >500V	≤6KV, U=1.:	$5U_R + 500V;$							
				U _R >6KV≤	≤15KV, U=1.	5U _R							
DISSIPAT	TION FAC	TOR (tan δ)		SL/YL/N	PO:≤0.5% m	ax							
				Y5P/Y5U	/Y5V/Y5T:I).F.≤2.5% m							
				Y5R:D.F.	≤0.2% max								
INSULAT	TION RES	ISTANCE		YL/SL/N	PO:≥10GΩ;	Y5R/Y5P/	Y5U/Y5V/Y	5T:					
				CR≤25nF	;≥4000MΩ;	CR > 25nF	, Rj•CR≥10	00s					
				Note: "s" for the time constant, that is, insulation resistance times the capacitance, in units of seconds, also know								wn as	
				megohm	micro metho	d.							

SAFETY STANDARD RECOGNIZED CAPACITOR-X1/Y-TS22

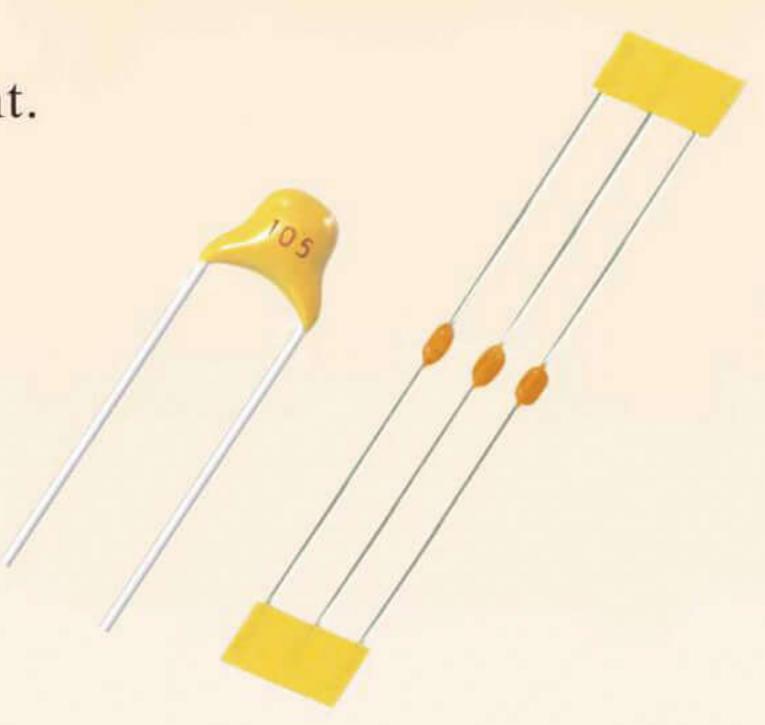
- · Ideal for across the line applications.
- · Compact size, Cost effective product.
- · Safety standards recognized.

S P E C	I F I C A T I O N S											
OPERATING TEMPERATURE RANGE	-25°C to +85°C											
CAPACITANCE RANGE	10pF to 10000pF											
CAPACITANCE TOLERANCE	±10%, ±20%, +80-20%											
RATED VLOTAGE	AC 125V, 250V, 400V											
CLIDCI ACC	CD: X1 400VAC Y1 400VAC											
SUBCLASS	CE: X1 400VAC Y2 250VAC											
TEMPERATURE COFFICIENT	2B(Y5P)±10% \ 2E(Y5U)+22% ~ -56% \ 2F(Y5V)+22% ~ -82%											
DISSIPATION FACTOR (tan δ)	2B: 2.5% max. at 25°C and 1 KHz, 1±0.2Vrms.											
INSULATION RESISTANCE AT 20°C	2E/2F: 2.5% max. at 25℃ and 1 KHz, 1±0.2Vrms.											
DIELECTRIC CERENICELI	10000MΩat 500VDC for 1 minute.											
DIELECTRIC STRENGTH	1500 VAC for 60 seconds. (250VAC) 4000 VAC for 60 seconds. (400VAC)											



MULTILAYER (MONO) CERAMIC CAPACITOR - TS17

- · Miniature size, wide capacitance, tape and reel packaging available for auto-placement.
- · Coating by epoxy resin, creates the excellent humidity resistance and prevents body from damaging during soldering and washing.
- · Industry standard size and various load spacing available.
- · Wide application in computer, data processor, telecommunication, Industrial control, and instrumentation equipments, etc.



S	P	E	C	Ι	F	I	C	A	1	Ι	O	N	S
	T.C		NPO/COG				X7R(B)		Y5V(Y/F) Z5U(E)			Ξ)	
Diele	ectric type	Sta	able Class I Die	lectric				Stable (ectric				
Electric	al properties	With negligible dependence of electrical properties on temperature, voltage, frequency and time			voltage,	edictable cha frequency and offers higher	d time, this di	With high twist dielectric constant and greater variation of properties with temperature and test conditions, very high capacitance per unit volume.					
App	Use in circuits requiring stable performance				Use as l	olocking co	upling、By-p element.	assing discri	Suited for By-passing and coupling application such as store power and memory circuit				
Capaci	itance range	1pF ~ 10nF					100pF ~ 5uF		1nF ~ 14.7uF				
Operating	g temperature	0±30PPm/c temperature -55°C ~+125°C					±15% 55℃ ~+125	C		~ -80% ~ +85℃	+22% ~ - -10°C ~+		

L max	Size	shape		Dimensio	ons(mm)		Voltage		Capacitance(PF)
2.5 W max	code		P(±0.5)	Lmax	Wmax	Tmax		COG(NPO)	X7R	Y5V(Z5U)
I)		ь	2.54	4.2	3.8	3.0	25V	OR5~103	101~105	103~475
——————————————————————————————————————	0805	C1	5.08	4.2	5.0	3.0	50V	OR5~103	101~474	103~105
A L max		C3	5.08	4.2	5.0	3.0	100V	OR5~103	101~104	103~104
1.5 <u>max</u>		a	2.54				25V	OR5~104	101~225	103~106
I	1206	b	3.5	5.0	4.5	3.5	50V	OR5~473	101~225	103~106
— — — — — — — — — — — — — — — — — — —		C1	5.08				100V	OR5~473	101~105	103~155
L max		a	2.54				25V	OR5~104	101~106	103~106
T	1210	b	3.5	5.0	4.5	3.5	50V	OR5~473	101~475	103~106
		C1	5.08				100V	OR5~473	101~105	103~155
——————————————————————————————————————		ь	5.08	7.0	6.0	4.0	25V	OR5~104	101~106	103~106
T W MS	1812						50V	OR5~104	101~106	103~106
×							100V	OR5~473	101~105	103~155
							25V	OR5~104	101~106	103~106
Т _Р Т	2225	b	5.5	10	9	4.5	50V	OR5~104	101~106	103~106
T max							100V	OR5~473	101~105	103~155
			7.5				25V	OR5~104	101~106	103~106
	3035	35 b		12	10	4.5	50V	OR5~104	101~106	103~106
Φ 0.45±0 <u>.05</u>							100V	OR5~473	101~105	103~155



MULTILAYER CERAMIC CAPACITOR - SMD - TS18

S P E C	1	F	I	C	A	T	I	O	N	S			
DIELECTRIC & VALUES	NPO X7R X	NPO X7R X5R X7T X7S X6S Y5V consult product pages of catalog for cap ranges and voltage rating											
TERMINATIONS	Tin / Nickel	Tin / Nickel											
VOLTAGE	4, 6, 6.3, 10	, 25, 50 VD	С										
PACKING	tape and reel (0402, 0603, 0805, 1206, 1210)												
CAPACITANCE	0.1pF ~ 100uF												
TOLERANCE	$\pm 0.1 pF \sim +80-20\%$												
OPERATING TEMPERATURE RANGE	NPO, X7R, X7T, X7S: -55°C ~+125°C; X6S: -55°C ~+105°C; X5R: -55°C ~+85°C; Y5V: -30°C ~+85°C;												
	NPO: The capacitor of this kind dielectric material is considered as ClassIcapacitor, including general capacitor and high frequency NPO capacitor. The electrical properties of NPO capacitor are the most stable one and have little change with temperature, voltage and time. They are suited for applications where low losses and high stability are required, such as filters, oscillators, and timing circuits.												
TYPES OF CAPACITOR AND DIELECTRIC MATERIAL	X7R, X5R, X6S, X7T, X7S: material is a kind of material has high dielectric constant. The capacitor made of this kind material is considered as ClassIIcapacitor whose capacitance is higher than that of classI. These capacitors are classified as having a semi stable temperature characteristic and used over a wide temperature range, such in these kinds of circuits, DC blocking, decoupling, bypassing, frequency discriminating etc.												
	Y5V: The capacitor made of this kind of material is the highest dielectric constant of all ceramic capacitors. They are used over a moderate temperature range in application where high capacitance is required because of its unstable temperature coefficient, but where moderate losses and capacitance changes can be tolerated. Its capacitance and dissipation factors are sensible to measuring conditions, such as temperature and voltage, etc.												

HIGHVOLTAGE MULTILAYER CERAMIC CAPACITORS-SMD-TS18H

S	P	E	C	1	F	1	C	A	1	1	O	N	S		
DIELECTRIC & VALUES NPO X7R X5R X7T X7S X6S Y5V consult product pages of catalog for cap range										or cap range	s and voltage rating				
TERMIN	NATIONS			Tin / Ni	ckel										
VOLTAC	ЭE			100, 200), 250, 500,										
PACKIN	G			tape and	tape and reel (0603, 0805, 1206, 1210)										
CAPACI	TANCE			0.2pF ~	$0.2pF \sim 4.7uF$										
TOLERA	ANCE			±0.1pF	~ +80-20%										
OPERATING TEMPERATURE RANGE NPO, X7R, X7T, X7S: -55℃ ~ +125℃; X6S: -55℃ ~ +105℃; X5R: -55℃ ~ +85℃; Y										°C; Y5V: -30°	C ~+85°C				

HIGH Q LOW ESR RF MULTILAYER CERAMIC CAPACITORS – MLCC SMD - TS18Q

P	R	F	0	R	M	A	N	C	E
TEMPERATURE	COEFFICIENT	COG	: 0±30ppm/℃						
CAPACITANCE	DRIFT	No m	hever is larger						
QUALITY FACT	OR (Q VALUE)	Over	2000 at 1MHz/11	KHz					
INSULATION RI	SISTANCE	At 20							
WORKING TEM	PERATURE								

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