

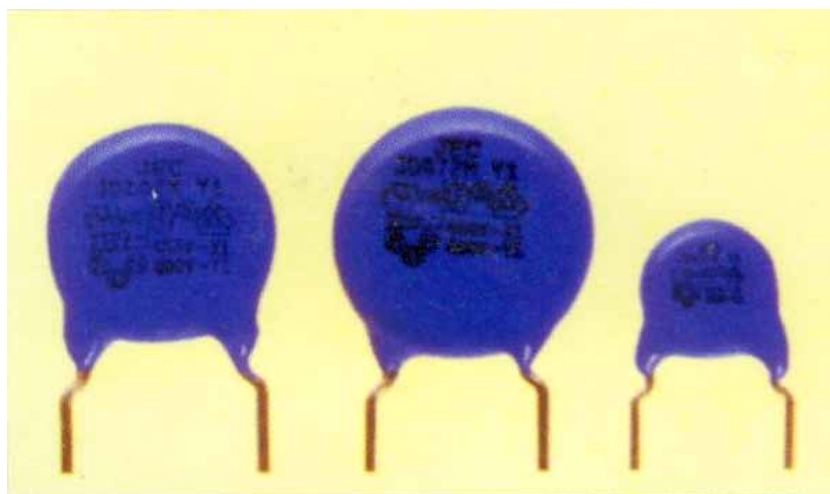
Y1 Series Lead-Free



AC. CAPACITORS

Applications

For use in circuit where alternating, pulsating, intermittent and steady high voltage exist.



Approved / Recognized Type

Related Standard		Certificate Number	Approved Monogram
CSA (Canada)	CSA-22.2 No. 1-98	E187963	
UL (USA)	UL 1414		
VDE (Germany)	EN 132 400 / IEC 60384 -14 (VDE 0565 Teil 1-1)	137027	
SEMKO (Sweden)	EN 132 400 / IEC 60384 -14	312302	
SEV (Switzerland)	EN 132 400 / IEC 60384 -14	03.1244	
FIMKO (Finland)	EN 132 400 / IEC 60384 -14	FI 17334 A1	
NEMKO (Norway)	EN 132 400 / IEC 60384 -14	P03201238	
DEMKO (Denmark)	EN 132 400 / IEC 60384 -14	136122-01	
VDE CB	IEC60384 - 14 Table II 2nd (1993)	DE 1-30022	

Specifications

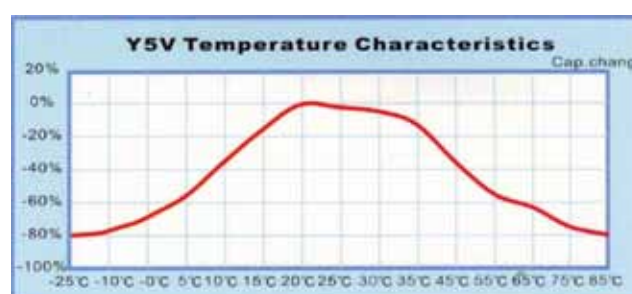
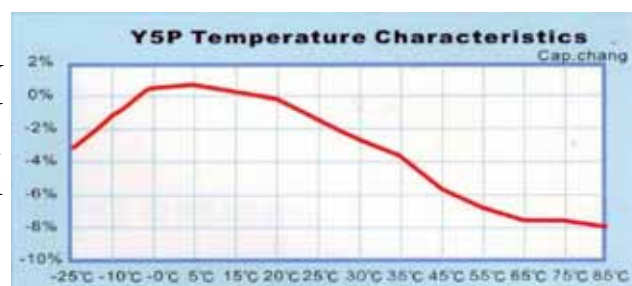
Operating Temp. Range	-25°C to +85°C		
Rated Voltage	Applicable Standards	X1	Y1
	CSA, UL	250V AC	
	SEMKO, SEV, FIMKO, NEMKO, DEMKO, VDE (0565 Teil 1-1)	400V AC	400V AC
Dielectric Withstanding Voltage	Rated Voltage	Test Voltage	
	400 V AC	4000V AC for 1 min	
Dissipation Factor(D.F)	Y5P	TAN $\delta \leq 2.5\%$, measured at 1KHz $\pm 10\%$, 1.0~5.0 Vrms, 25°C	
	Y5V	TAN $\delta \leq 5.0\%$, measured at 1KHz $\pm 10\%$, 1.0~5.0 Vrms, 25°C	
Capacitance (C)	Range	10 pF to 4700 pF measured at 1KHz $\pm 10\%$, 1.0~5.0 Vrms, 25°C	
	Tolerance	$\pm 10\%$	Y5P
		$\pm 20\%$	Y5V
Insulation Resistance (IR)	10000 M Ω min, 500 V DC		
Temperature Characteristics	Type Code	Cap. Change	Temp. Range
	Y5P	$\pm 10\%$,max.	-25°C to +85°C
	Y5V	+30%, -80% max.	-25°C to +85°C
	The reference temperature : 25°C		

Introduction

These Ceramic Disc Capacitors are specifically designed for AC applications and meet the safety requirements of various safety standards agencies. These capacitors are ideal for across the line and line by-pass applications

Features

Ideal for across the line applications
 Compact size
 Cost effective product
 Safety standards recognized for AC applications

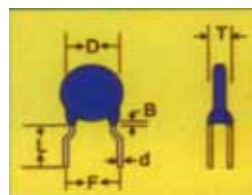


General Specifications

Operating temperature range	-25°C to 85°C
Capacitance range	10 PF to 4700 PF
Capacitance tolerance	K= $\pm 10\%$, M= $\pm 20\%$
Rated voltage	400 VAC. Please refer to table for approval file number.
Temperature coefficient	$\pm 10\%$ for B(Y5P), +30% to -80% for F(Y5V)
Dissipation Factor ($\tan \delta$)	Y5P : 2.5% max. at 25°C and 1KHz, $1 \pm 0.2V_{rms}$. Y5V : 5.0% max. at 25°C and 1KHz, $1 \pm 0.2V_{rms}$.
Insulation Resistance at 25°C	10000M Ω at 500V DV for 1 minute.
Dielectric strength	4000 V AC for 60 Seconds - AC 400 V

Capacitance and Dimensions

When ordering safety standard recognized ceramic capacitors please use the part numbers as noted above



Type :AA

Dimension and Tolerance

B = 3.0mm max for AA

d = 0.65mm $\pm$ 0.05mm

F = 9.5 $\pm$ 0.8mm

L = 5 - 25mm

Rated Y1 , X1 :400V Dielectric strength : 4000Vac

T.C	CAP.	TOL.	DIMENSION(mm)		
			D max	F	T max
$\pm 10\%$ (Y5P)	10 PF	K $\pm 10\%$	8	9.5 $\pm$ 0.8	7
	to		8	9.5 $\pm$ 0.8	7
	82 PF		8	9.5 $\pm$ 0.8	7
	100 PF		8	9.5 $\pm$ 0.8	7
	150 PF		8	9.5 $\pm$ 0.8	7
	220 PF		8	9.5 $\pm$ 0.8	7
	330 PF		8	9.5 $\pm$ 0.8	7
	470 PF		9	9.5 $\pm$ 0.8	7
	560 PF		10	9.5 $\pm$ 0.8	7
	680 PF		11	9.5 $\pm$ 0.8	7
	1000 PF		12	9.5 $\pm$ 0.8	7
+30%~-80% (Y5V)	1000 PF	M $\pm 20\%$	8	9.5 $\pm$ 0.8	7
	1500 PF		9	9.5 $\pm$ 0.8	7
	2200 PF		10	9.5 $\pm$ 0.8	7
	3300 PF		12	9.5 $\pm$ 0.8	7
	3900 PF		13	9.5 $\pm$ 0.8	7
	4700 PF		14	9.5 $\pm$ 0.8	7