Y1 SERIES

文件編號：P004
版　　本：1
制訂日期：2005/10/20

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 applictions
⊙Compact size
⊙Cost effective product
⊙Safety standards recognized for AC applications

GENERAL SPECIFICATIONS

Operating temperature range:	－ 25 to 85℃
Capacitance range:	10 pF to 4700 pF
Capacitance tolerance:	K＝±10% , M＝±20%
Rated voltage:	400 VAC. Please refer to table for approval file number.
Temperature coefficient:	±10% for B (Y5P), ＋22 to －56% for E (Y5U)＋30 to －80% for F (Y5V)
Dissipation factor (tan δ):	Y5P: 2.5% max. at 25℃ and 1KHz, 1± 0.2 Vrms.
	Y5U: 2.5% max. at 25℃ and 1KHz, 1± 0.2 Vrms.
	Y5V: 5.0% max. at 25℃ and 1KHz, 1± 0.2 Vrms.
Insulation resistance at 25℃:	10000MΩ at 500VDC for 1 minute.
Dielectric strength:	4000 VAC for 60 seconds - AC400V

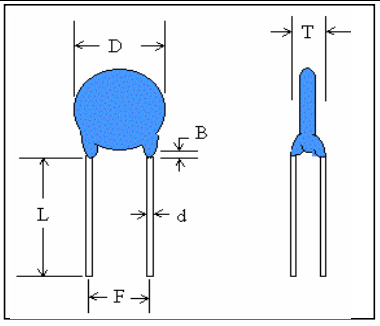
CAPACITANCE AND DIMENSIONS:

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

Rated : Y1, X1:AC400V　　Dielectric strength: 4000Vac

PART NUMBER	T.C.	CAP.	TOL.	DIMENSION(mm)		
				D max	F	T max
JD10KY5P Y1 to JD82KY5P Y1	±10% (Y5P)	10PF to 82PF	K ±10%	7.0ϕ	9.5±0.8	＜6.0
JD101KY5P Y1		100PF		7.0ϕ	9.5±0.8	＜6.0
JD151KY5P Y1		150PF		7.0ϕ	9.5±0.8	＜6.0
JD221KY5P Y1		220PF		8.0ϕ	9.5±0.8	＜6.0
JD331KY5P Y1		330PF		8.0ϕ	9.5±0.8	＜6.0
JD471KY5P Y1		470PF		7.0ϕ	9.5±0.8	＜6.0
JD561KY5P Y1		560PF		8.5ϕ	9.5±0.8	＜6.0
JD681KY5P Y1		680PF		9.5ϕ	9.5±0.8	＜6.0
JD102KY5P Y1		1000PF		12.0ϕ	9.5±0.8	＜6.0
JD102KY5UY1	＋22～－56% (Y5U)	1000PF	K±10%	9.0ϕ	9.5±0.8	＜6.0
JD471MY5UY1		470PF	M ±20%	7.0ϕ	9.5±0.8	＜6.0
JD561MY5UY1		560PF		8.0ϕ	9.5±0.8	＜6.0
JD681MY5UY1		680PF		8.0ϕ	9.5±0.8	＜6.0
JD102MY5UY1		1000PF		8.0ϕ	9.5±0.8	＜6.0
JD152MY5UY1		1500PF		9.0ϕ	9.5±0.8	＜6.0
JD222MY5UY1		2200PF		11.0ϕ	9.5±0.8	＜6.0
JD332MY5UY1		3300PF		13.0ϕ	9.5±0.8	＜6.0
JD472MY5UY1		4700PF		15.0ϕ	9.5±0.8	＜6.0
JD102MY5V Y1	＋30～－80% (Y5V)	1000PF	M ±20%	7.0ϕ	9.5±0.8	＜6.0
JD152MY5V Y1		1500PF		8.5ϕ	9.5±0.8	＜6.0
JD222MY5V Y1		2200PF		9.5ϕ	9.5±0.8	＜6.0
JD332MY5V Y1		3300PF		11.0ϕ	9.5±0.8	＜6.0
JD392MY5V Y1		3900PF		11.5ϕ	9.5±0.8	＜6.0
JD472MY5V Y1		4700PF		13.0ϕ	9.5±0.8	＜6.0

Dimensions and Tolerance　　TYPE：FS
B＝ 3.0 mm max for FS
d＝0.60 mm ±0.05 mm
F＝7.5 or 9.5 or12.5±0.8 mm
L＝3～33 mm.
◎ According as customer's request and size.

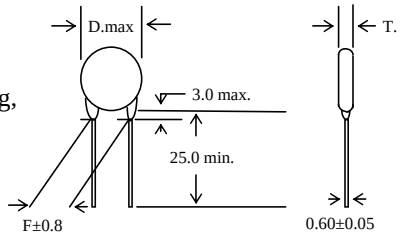


Y1 , X1 AC400V

■ AC. CAPACITORS (Y1:400VAC)

Applications:

● For use in ciruit where alternating, pulsating, intermittent and steady high voltager exist.



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Approved/Recognized Type

Related Standard		Certificate NO.	Approved Monogram
CSA (Canada)	CSA-22.2 No.1-98	E187963	c RU us
UL (USA)	UL1414		
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	IEC 60384-14 Table II 2nd (1993)	DE 1-30022	CB

Part Number Configuration :

JD 102 K Y5P Y1
(1) (2) (3) (4) (5)

(1) AC capacitors, safety
(2) Rated capacitance
(3) Tolerance on rated capacitance
(4) Type code: Y5P, Y5U，Y5V
(5) Class Y1

Specifications:

Operating Temp. Rang	－２５℃ ｔｏ ＋８５℃			
			X1	Y1
	CSA,UL		250 VAC	
	SEMKO, SEV, FIMKO, NEMKO, DEMKO, VDE (0565 Teil 1-1)		400 VAC	400 VAC
Dielectric Withstanding Voltage	Rated Voltage		Test Voltage	
	400 VAC		4000 VAC for 1 min.	
Dissipation Factor (D.F)	Y5P	TAN $\delta \leqq 2.5\%$, measured at 1KHz±10%, 1.0 － 5.0 Vrms, 25℃		
	Y5U	TAN $\delta \leqq 2.5\%$, measured at 1KHz±10%, 1.0 － 5.0 Vrms, 25℃		
	Y5V	TAN $\delta \leqq 5.0\%$, measured at 1KHz±10%, 1.0 － 5.0 Vrms, 25℃		
Capacitance (C)	Range	10 pF to 4700 pF. measured at 1KHz±10%, 1.0 － 5.0 Vrms, 25℃		
	Tolerance	±10%	Y5P	
		±10%、±20%	Y5U	
		±20%	Y5V	
Insulation Resistance (I R)	10000 MΩ min, 500 VDC			
Temperature Characteristics	Type Code	Cap. Change	Temp. Range	
	Y5P	±10%, max.	－２５℃ ｔｏ ＋８５℃	
	Y5U	＋22%, －56% max.	－２５℃ ｔｏ ＋８５℃	
	Y5V	＋30%, －80% max.	－２５℃ ｔｏ ＋８５℃	
	The reference temperature: 25 ℃			