

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 to 85°C
Capacitance range:	10 pF to 10000 pF
Capacitance tolerance:	K=±10%, M=±20%
Rated voltage:	125, 250 and 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°C and 1KHz, 1± 0.2 Vrms. Y5U: 2.5% max. at 25°C and 1KHz, 1± 0.2 Vrms. Y5V: 5.0% max. at 25°C and 1KHz, 1± 0.2 Vrms.
Insulation resistance at 25°C:	10000MΩ at 500VDC for 1 minute.
Dielectric strength:	1500 VAC for 60 seconds - AC125V, AC250V 2600 VAC for 60 seconds - AC400V

CAPACITANCE AND DIMENSIONS:

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

Rated Y2, X1: AC250V AND AC400V Dielectric strength: 1500Vac/2600Vac

PART NUMBER	T.C.	CAP.	TOL.	DIMENSION(mm)		
				D	F	T
JY10KY5P Y2 to JY82KY5P Y2	±10% (Y5P)	10PF to 82PF	K ±10%	6.5Φ	7.5±0.8	<5.0
JY101KY5P Y2		100PF		6.5Φ	7.5±0.8	<5.0
JY151KY5P Y2		150PF		6.5Φ	7.5±0.8	<5.0
JY221KY5P Y2		220PF		6.5Φ	7.5±0.8	<5.0
JY271KY5P Y2		270PF		6.5Φ	7.5±0.8	<5.0
JY331KY5P Y2		330PF		6.5Φ	7.5±0.8	<5.0
JY471KY5P Y2		470PF		7.5Φ	7.5±0.8	<5.0
JY561KY5P Y2		560PF		7.5Φ	7.5±0.8	<5.0
JY681KY5P Y2		680PF		7.5Φ	7.5±0.8	<5.0
JY102KY5P Y2		1000PF		8.5Φ	7.5±0.8	<5.0
JY471KY5U Y2	+22 ~ -56% (Y5U)	470PF	K±10%	6.5Φ	7.5±0.8	<5.0
JY561KY5U Y2		560PF		7.5Φ	7.5±0.8	<5.0
JY681KY5U Y2		680PF		7.5Φ	7.5±0.8	<5.0
JY102MY5U Y2		1000PF	M ±20%	7.5Φ	7.5±0.8	<5.0
JY222MY5U Y2		2200PF		9.5Φ	7.5±0.8	<5.0
JY332MY5U Y2		3300PF		11.0Φ	7.5±0.8	<5.0
JY472MY5U Y2		4700PF		13.0Φ	7.5±0.8	<5.0
JY102MY5V Y2	+30 ~ -80% (Y5V)	1000PF	M ±20%	6.5Φ	7.5±0.8	<5.0
JY152MY5V Y2		1500PF		7.5Φ	7.5±0.8	<5.0
JY222MY5V Y2		2200PF		7.5Φ	7.5±0.8	<5.0
JY332MY5V Y2		3300PF		9.0Φ	7.5±0.8	<5.0
JY392MY5V Y2		3900PF		10.5Φ	7.5±0.8	<5.0
JY472MY5V Y2		4700PF		10.5Φ	7.5±0.8	<5.0
JY562MY5V Y2		5600PF		11.5Φ	7.5±0.8	<5.0
JY682MY5V Y2		6800PF		11.5Φ	7.5±0.8	<5.0
JY822MY5V Y2		8200PF		12.5Φ	7.5±0.8	<5.0
JY103MY5V Y2		10000PF		14.5Φ	9.5±0.8	<5.0

Dimensions and Tolerance

TYPE : FS

B = 3.0 mm max for FS

d = 0.60 mm ±0.05 mm

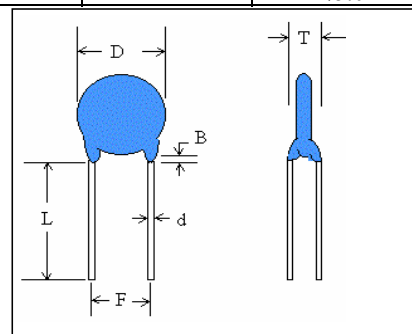
F = 6.35 or 7.5 or 9.5 ±0.8 mm

L = 3 ~ 33 mm.

⊙ According as customer's request and size.



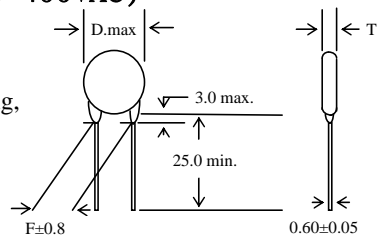
Y2, X1 AC250V, AC400V



■ AC. CAPACITORS (Y2:250VAC AND 400VAC)

Applications:

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



文件編號：P004
 版 本：1
 制訂日期：2005/10/20

Approved/Recognized Type

Related Standard		Certificate NO.	Approved Monogram
CSA (Canada)	CSA-22.2 No.1-94	LR 111243-1	
UL (USA)	UL1414	E187963	
VDE (Germany)	EN 132 400 / IEC 60384 -14 (VDE 0565 Teil 1-1)	123326	
SEMKO (Sweden)	EN 132 400 / IEC 60384 -14	312302	
SEV (Switzerland)	EN 132 400 / IEC 60384 -14	03.1245	
FIMKO (Finland)	EN 132 400 / IEC 60384 -14	FI 153165 A1	
NEMKO (Norway)	EN 132 400 / IEC 60384 -14	P03201239	
DEMKO (Denmark)	EN 132 400 / IEC 60384 -14	135948-01/A1 309805-01	
VDE CB	IEC 60384-14 Table II 2nd (1993)	DE 1-07488-A1	CB

Part Number Configuration :

JY 102 K Y5P Y2

(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 Y2

Specifications:

Operating Temp. Rang	- 2 5 ° C t o + 8 5 ° C		
	CSA,UL	X1	Y2
	SEMKO, SEV, FIMKO, NEMKO, DEMKO, VDE (0565 Teil 1-1)	250 VAC	400 VAC 300 VAC
Dielectric Withstanding Voltage	Rated Voltage	Test Voltage	
	250 VAC 400 VAC	1500 VAC for 1 min. 2600 VAC 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	
	Y5U	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 10000 pF. measured at 1KHz $\pm 10\%$, 1.0 - 5.0 Vrms, 25°C	
	Tolerance	$\pm 10\%$	Y5P
		$\pm 10\%$ 、 $\pm 20\%$	Y5U
		$\pm 20\%$	Y5V
Insulation Resistance (IR)	10000 M Ω min, 500 VDC		
Temperature Characteristics	Type Code	Cap. Change	Temp. Range
	Y5P	$\pm 10\%$, max.	- 2 5 ° C t o + 8 5 ° C
	Y5U	+22%, -56% max.	- 2 5 ° C t o + 8 5 ° C
	Y5V	+30%, -80% max.	- 2 5 ° C t o + 8 5 ° C
The reference temperature: 25 ° C			