

■ AC. CAPACITORS (Y1:250VAC AND 400VAC)

Applications:

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



Approved/Recognized Type

Related Standard		Certificate NO.	Approved Monogram
CSA (Canada)	CSA-22.2 No.1	E187963	
UL (USA)	UL1414		
VDE (Germany)	EN 60384 -14 / 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/A1 136122-01	
VDE CB	IEC 60384-14 Table II 2nd (1993)	DE 1-30022	
CQC (China)	GB/T14472-1998	CQC08001022317	
EK (Korea)	K60384-14	SZ03002-6002	

Specifications:

Operating Temp. Rang	- 2 5 ° C t o + 8 5 ° C		
Rated Voltage	Applicable Standards		X1 Y1
	CSA,UL		250 VAC
	SEMKO, SEV, FIMKO, CHINA, KOREA 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.
Capacitance	Range	10 pF to 4700 pF 、 measured at 1KHz±10% 、 1.0 – 5.0 Vrms 、 25°C	
Dissipation Factor (D.F)	Y5P	TAN δ ≤ 2.5% 、 measured at 1KHz±10% 、 1.0 – 5.0 Vrms 、 25°C	
	Y5U	TAN δ ≤ 2.5% 、 measured at 1KHz±10% 、 1.0 – 5.0 Vrms 、 25°C	
	Y5V	TAN δ ≤ 5.0% 、 measured at 1KHz±10% 、 1.0 – 5.0 Vrms 、 25°C	
Insulation Resistance	10000 MΩ at 500 VDC for 1minute.		
Temperature Characteristics	Type Code	Tolerance	Cap. Change
	Y 5 P	±10%	+ 1 0 % 、 - 1 0 % m a x .
	Y 5 U	±10% 、 ±20%	+ 2 2 % 、 - 5 6 % m a x .
	Y 5 V	±20%	+ 3 0 % 、 - 8 0 % m a x .
Temp. Range			
- 2 5 ° C t o + 8 5 ° C			
- 2 5 ° C t o + 8 5 ° C			
- 2 5 ° C t o + 8 5 ° C			
The reference temperature: 25 ° C			

Y1 SERIES

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



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

CAPACITANCE AND DIMENSIONS:

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

Rated Y1, X1: AC250V AND 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%	7.0	9.5±0.8	7.0
JD101KY5P Y1		100PF		7.0	9.5±0.8	7.0
JD151KY5P Y1		150PF		7.0	9.5±0.8	7.0
JD221KY5P Y1		220PF		8.0	9.5±0.8	7.0
JD331KY5P Y1		330PF		8.0	9.5±0.8	7.0
JD471KY5P Y1		470PF		7.0	9.5±0.8	7.0
JD561KY5P Y1		560PF		8.5	9.5±0.8	7.0
JD681KY5P Y1		680PF		9.5	9.5±0.8	7.0
JD102KY5P Y1		1000PF		12.0	9.5±0.8	7.0
JD102KY5UY1		+22 ~ - 56% (Y5U)		1000PF	K±10%	9.0
JD471MY5UY1	470PF		M ±20%	7.0	9.5±0.8	7.0
JD561MY5UY1	560PF			8.0	9.5±0.8	7.0
JD681MY5UY1	680PF			8.0	9.5±0.8	7.0
JD102MY5UY1	1000PF			8.0	9.5±0.8	7.0
JD152MY5UY1	1500PF			9.0	9.5±0.8	7.0
JD222MY5UY1	2200PF			11.0	9.5±0.8	7.0
JD332MY5UY1	3300PF			13.0	9.5±0.8	7.0
JD472MY5UY1	4700PF			15.0	9.5±0.8	7.0
JD102MY5V Y1	+30 ~ -80% (Y5V)	1000PF		M ±20%	7.0	9.5±0.8
JD152MY5V Y1		1500PF	8.5		9.5±0.8	7.0
JD222MY5V Y1		2200PF	9.5		9.5±0.8	7.0
JD332MY5V Y1		3300PF	11.0		9.5±0.8	7.0
JD392MY5V Y1		3900PF	11.5		9.5±0.8	7.0
JD472MY5V Y1		4700PF	13.0		9.5±0.8	7.0

Dimensions and Tolerance

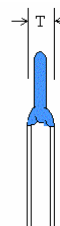
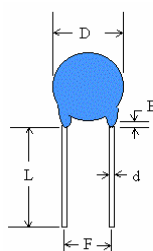
TYPE : FS

B = 3.0 mm max for FS

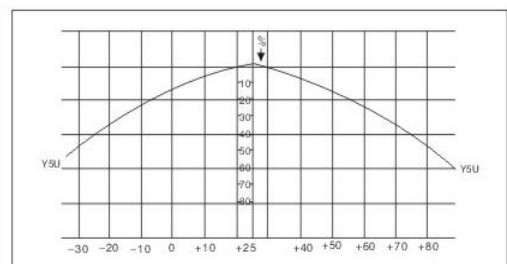
d = 0.60 mm ±0.05 mm

F = 7.5 or 9.5 or 12.5 ±0.8 mm

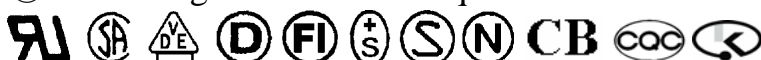
L = 3 ~ 33 mm.



Cap.Chang Y5U Temperature Characteristics



© According as customer's request and size



Y1, X1 AC250V, AC400V