

SAFETY STANDARD RECOGNIZED Y1/Y2 CAPACITORS

Y1/Y2 Series 跨接抑制突波電容器 (X1Y1, X1Y2)

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

Introduction

These Ceramic Disc Capacitors are specifically designed for AC applications and meet the safety requirements of various safety standards agencies.

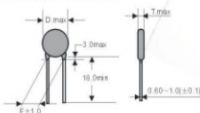
These capacitors are ideal for across the line and line by-pass applications

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, -25°C to 125°C,
Capacitance range	1pF to 10000pF
Capacitance tolerance	D=±0.5PF, K=±10%, M=±20%
Rated voltage	400VAC. Please refer to table for approval file number less than 50mA X1:400VAC Y1:250V, 400VAC Y2:250V, 300VAC
Temperature coefficient	±15% for B (X7R), ±10% for B (Y5P), +20 to -55% for E (Y5U) +30 to -80% for F (Y5V)
Dissipation factor (tan δ)	X7R: 2.5% max. at 25°C and 1KHz, 1 ± 0.2 Vrms. Y5P: 2.5% max. at 25°C and 1KHz, 1 ± 0.2 Vrms. Y5U: 5.0% 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	Y1: 4000 VAC/8000VDC for 60 seconds-AC 400V X1: 2300VAC/4000 VDC for 60 seconds-AC 400V Y2: 2600 VAC/5000VDC for 60 seconds-AC 400V



Capacitance and Dimensions

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

Rated 400VAC (X1Y1)

TYPE NUMBER	O.T.	T.C.	CAP.	TOL.	DIMENSION(mm)		
					D max	F	T max
ZD1R0DY5PY1	-25°C - +125°C	Y5P	1PF	±0.5PF	7	10 ± 0.8	8
ZD1R5DY5PY1			7		10 ± 0.8	8	
ZD2R2DY5PY1			7		10 ± 0.8	8	
ZD3R3DY5PY1			7		10 ± 0.8	8	
ZD4R7DY5PY1			7		10 ± 0.8	8	
ZD5R6DY5PY1			7		10 ± 0.8	8	
ZD6R8DY5PY1			7		10 ± 0.8	8	
ZD8R2DY5PY1			7		10 ± 0.8	8	
ZD100KY5PY1			7		10 ± 0.8	8	
ZD120KY5PY1			7		10 ± 0.8	8	
ZD150KY5PY1			7		10 ± 0.8	8	
ZD180KY5PY1			7		10 ± 0.8	8	
ZD220KY5PY1			7		10 ± 0.8	8	
ZD270KY5PY1			7		10 ± 0.8	8	
ZD330KY5PY1			7		10 ± 0.8	8	
ZD390KY5PY1			7		10 ± 0.8	8	
ZD470KY5PY1			7		10 ± 0.8	8	
ZD560KY5PY1			7		10 ± 0.8	8	
ZD680KY5PY1			7		10 ± 0.8	8	
ZD820KY5PY1			7		10 ± 0.8	8	
ZD101KY5PY1		7	10 ± 0.8	8			
ZD151KY5PY1		7	10 ± 0.8	8			
ZD221LY5PY1		7	10 ± 0.8	8			
ZD331KY5PY1		8	10 ± 0.8	8			
ZD471KY5PY1		10	10 ± 0.8	8			
ZD561KY5PY1		10	10 ± 0.8	8			
ZD681KY5PY1		12	10 ± 0.8	8			
ZD821KY5PY1		13	10 ± 0.8	8			
ZD102KY5PY1		13	10 ± 0.8	8			
ZD152KY5PY1		16	10 ± 0.8	8			
ZD222KY5PY1		18	10 ± 0.8	8			
ZD332KY5PY1		20	10 ± 0.8	8			
ZD392KY5PY1		20	10 ± 0.8	8			
ZK472KY5PY1		22	10 ± 0.8	8			
ZD331KY5UY1		7	10 ± 0.8	8			
ZD391KY5UY1		7	10 ± 0.8	8			
ZD471KY5UY1		7	10 ± 0.8	8			
ZD561KY5UY1		7	10 ± 0.8	8			
ZD681KY5UY1		7	10 ± 0.8	8			
ZD821KY5UY1		8	10 ± 0.8	8			
ZD102KY5UY1	8	10 ± 0.8	8				
ZD152KY5UY1	10	10 ± 0.8	8				
ZD222KY5UY1	12	10 ± 0.8	8				
ZD332KY5UY1	15	10 ± 0.8	8				
ZD392KY5UY1	16	10 ± 0.8	8				
ZD472KY5UY1	18	10 ± 0.8	8				
ZD562KY5UY1	18	10 ± 0.8	8				
ZD682KY5UY1	18	10 ± 0.8	8				
ZD822KY5UY1	20	10 ± 0.8	8				
ZD103KY5UY1	22	10 ± 0.8	8				
ZD681MY5Y1	-25°C - +85°C	+30% - 80% (Y5V)	680PF	±20%	7	10 ± 0.8	8
ZD821MY5Y1			7		10 ± 0.8	8	
ZD102MY5Y1			8		10 ± 0.8	8	
ZD152MY5Y1			9		10 ± 0.8	8	
ZD222MY5Y1			10		10 ± 0.8	8	
ZD272MY5Y1			11		10 ± 0.8	8	
ZD332MY5Y1			12		10 ± 0.8	8	
ZD392MY5Y1			13		10 ± 0.8	8	
ZD742MY5Y1			14		10 ± 0.8	8	
ZD562MY5Y1			15		10 ± 0.8	8	
ZD682MY5Y1			17		10 ± 0.8	8	
ZD822MY5Y1			18		10 ± 0.8	8	
ZD103MY5Y1	20	10 ± 0.8	8				