

ELECTRICAL SPECIFICATION



Safety Standard Recognized Ceramic Capacitor

Capacitance Range: 100PF to 10000PF
Test at 1.0±0.2V RMS +25°C and 1KHZ

Capacitance Tolerance:
K: ±10%
M: ±20%

Working Voltage:
UL,CUL: 250VAC
VDE, ENEC: 400VAC, 250VAC

Dielectric Strength:
2600VAC For 60 Seconds

Dissipation Factor:
B(Y5P),E(Y5U): 2.5% max., test at 1.0±0.2VRMS,25°C at 1KHZ.
F(Y5V): 5.0% max., test at 1.0±0.2VRMS,25°C at 1KHZ.

Insulation Resistance:
10,000 Megohms min at 500VDC

Temperature Characteristics:

T.C.	Cap. Change	Temp. Range
B (Y5P)	±10%	-25°C to +85°C
E (Y5U)	+22-56%	-25°C to +85°C
F (Y5V)	+22-82%	-25°C to +85°C

Humidity Test:

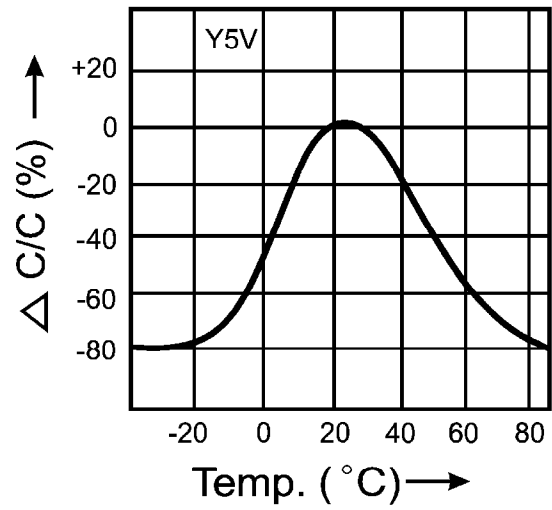
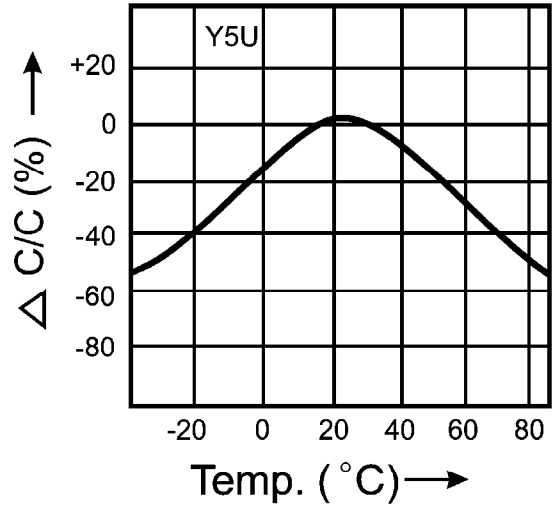
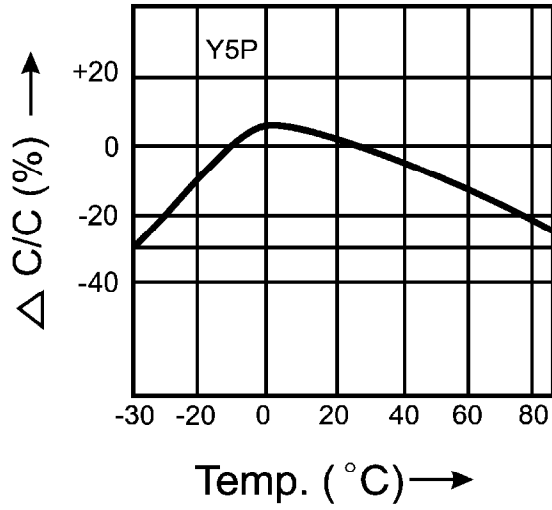
Capacitance Change	T.C.	Capacitance Change	Capacitors shall be subjected to a temperature of 40±2°C and relative humidity between 90-95% for 500±12 hours. And maintained at normal temperature and humidity for a period of 4-24 hours.
	Y5P	10% max	
	Y5U	20% max	
	Y5V	30% max	
D.F.	T.C.	Dissipation Factor:	
	Y5P	5.0% max	
	Y5U	5.0% max	
	Y5V	7.5% max	

RohS:

Conform with RoHS 2002/95/EC.

TEMPERATURE DEPENDENCY OF CAPACITANCE

RoHS



APPROVAL STANDARD AND FILE NO.

RoHS

Agencies	Standard No.	Recognized File No.	Class & W.V.	Capacitance Values	Region
UL	UL1414	E189495	250Vac	101-103	USA
CUL	UL1414	E189495	250Vac	101-103	Canada
VDE	DIN EN 60384-14: 2006-04 (VDE 0565 Teil 1-1) EN 60384-14:2005-08 IEC 60384-14 (ED.3)	40021868	X1:400Vac Y2:250Vac	101-103	Germany
ENEC	EN 60384-14:2005-08 IEC 60384-14 (ED.3)	40021868	X1:400Vac Y2:250Vac	101-103	Europe

Parts Number System


E	B	101	K	2V	7	L	1	K
1)	2)	3)	4)	5)	6)	7)	8)	9)

- | | |
|---|--|
| <p>1) Coating: E: Epoxy Coating</p> | <p>6) Lead Space: 5= 5.0mm ± 1mm
7= 7.5mm ± 1mm
9= 9.5mm ± 1mm</p> |
| <p>2) Temp. Char.: B= Y5P
E= Y5U
F= Y5V</p> | <p>7) Lead length: L= 25mm (Approx.)
M= 10mm ± 2mm
8= 8mm ± 2mm
7= 7mm ± 2mm
6= 6mm ± 2mm
5= 5mm ± 2mm
T= Taping Reel
A= AMMO BOX</p> |
| <p>3) Capacitance: 101=10x10=100PF
102=10x100=1,000PF
103=10x1000
= 10,000PF</p> | <p>8) Lead Style: 1= Straight type</p> |
| <p>4) Tolerance: K= ±10%
M= ±20%</p> | <p>9) Mark: K= Standard Marking</p> |
| <p>5) Rated Voltage: 2T= Y2 250VAC
2V= X1 400VAC</p> | |

MARKING

RoHS



 : The mark of Manufacturer.

472 : Capacitance ,EX. 472=47x100=4700(PF)

M : Capacitance Tolerance , EX. M=±20%

81 : Date Code

8: Last digit of ERA

1: Month Jan, Feb, Mar..... Sep=1,2,3.....9

Oct= O

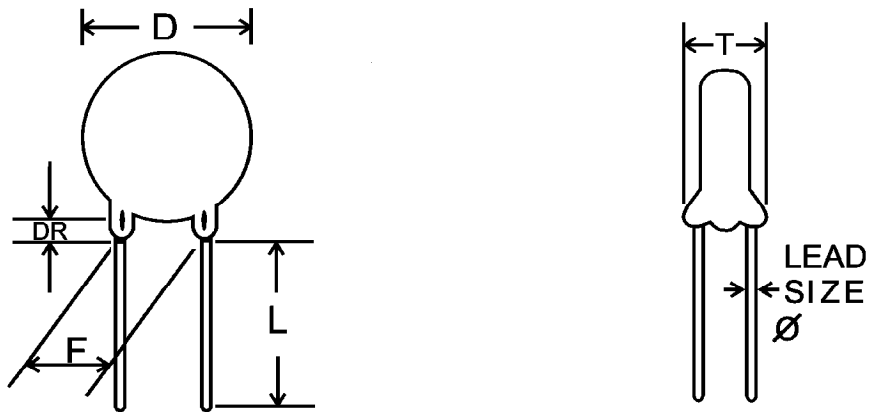
Nov= N

Dec= D

SY : Type Designation

PRODUCT SPECIFICATIONS

RoHS



R.V.	CAP.	TOL. %	T.C.	D. Max. mm	F. ±1.0mm	L. mm	DR mm.	L.S. ±0.05 mm	T. mm
250V 400V	101K	±10	Y5P	7	7.5	< 32	<3.5	0.6	< 7
	151K	±10	Y5P	7	7.5				
	221K	±10	Y5P	7	7.5				
	331K	±10	Y5P	7	7.5				
	471K	±10	Y5P	8	7.5				
	681K	±10	Y5P	9	7.5				
	681M	±20	Y5U	8	7.5				
	102M	±20	Y5U / Y5V	8 / 6	7.5				
	152M	±20	Y5U / Y5V	9 / 7	7.5				
	222M	±20	Y5U / Y5V	10 / 8	7.5				
	332M	±20	Y5U / Y5V	12 / 10	7.5 / 9.5				
	472M	±20	Y5U / Y5V	14 / 11	7.5 / 9.5				
103M	±20	Y5V	17	7.5 / 9.5					