



Capacitance Range: 10PF to 100,000PF
CLASS I: Test at 1.0±0.2V **RMS**, +25°C and **1MHZ**
CLASS II: Test at 1.0±0.2V **RMS**, +25°C and **1KHZ**
CLASSIII: Test at 0.5±0.2V**RMS**, +25°C and **1KHZ**.

Capacitance Tolerance:
J: ±5% (NPO, COG and SL)
K: ±10% (NPO, COG, SL, X7R, Y5E and Y5P)
M: ±20% (Z5U and Y5U)
Z: + 80%-20% (Z5V and Y5V)

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Working Voltage:
 500V, 1000V, 2000V, 3000V,.....15KV

Dielectric Strength:
 500V and below: 250% rated voltage with 50mA max charging current
 1KV to 3KV: 200% rated voltage with 50mA max charging current.
 4KV and above: 150% rated voltage with 50mA max charging current.

Dissipation Factor:
CLASS I (30PF blow): Test at 1.0±0.2V **RMS**, +25°C and **1MHZ**, Q>400+20*Cap
CLASS I (30PF above): Test at 1.0±0.2V **RMS**, +25°C and **1MHZ**, Q≥1000
CLASS II: Test at 1.0±0.2V **RMS**, +25°C and **1KHZ**,
 5% max for Y5V, 3% max for Z5V, 2.5% max for other
CLASSIII: Test at 0.5±0.2V **RMS**, +25°C and **1KHZ**.

Insulation Resistance:
 Working voltage 500V and blow: 10,000 Megohms min at rate working voltage and 25°C
 Working voltage 500V and above: 10,000 Megohms min at 500Vdc and 25°C

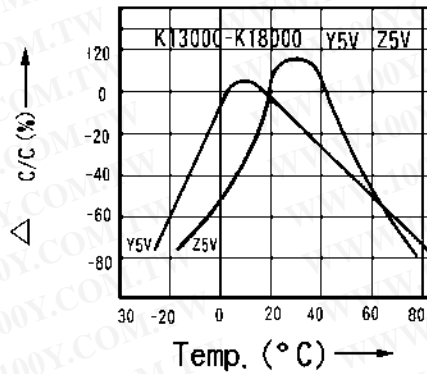
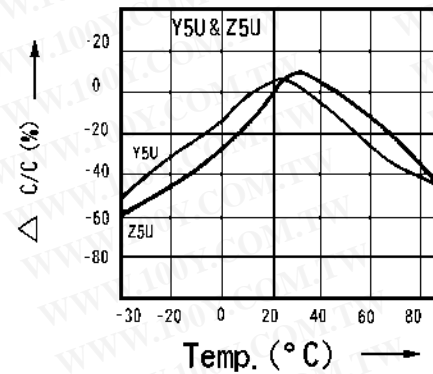
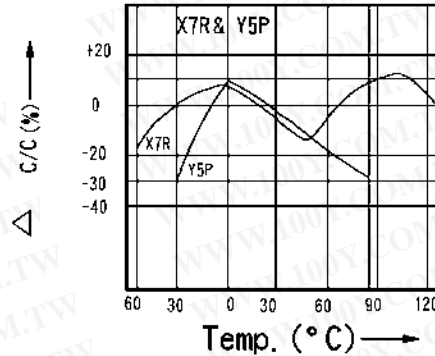
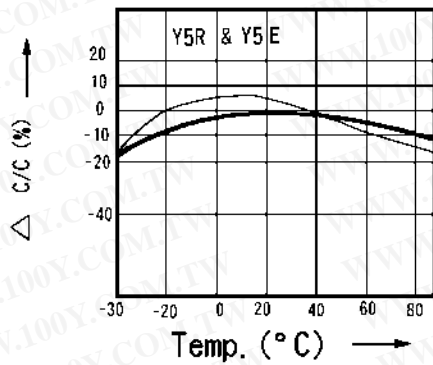
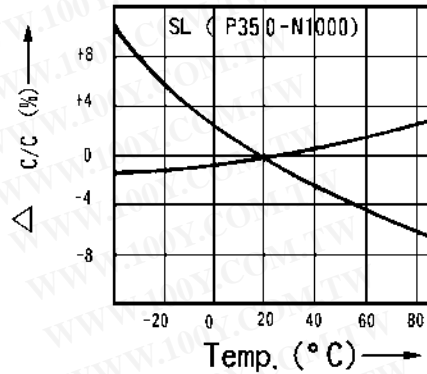
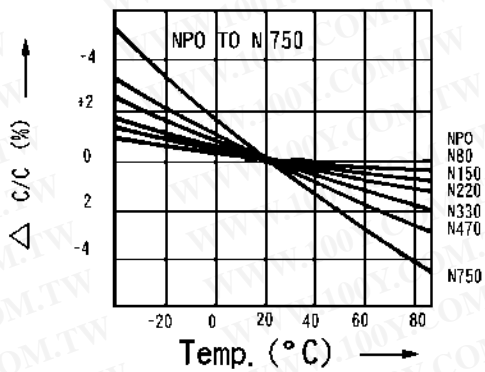
Humidity Test:

Capacitance Change	T.C.	Capacitance Change	Per EIA RS-198-C, method B3, Condition B.
	F	30% Max	
	other	20% Max	
D.F.	T.C.	Dissipation Factor:	
	F	5.0% Max	
	other	3.0% Max	

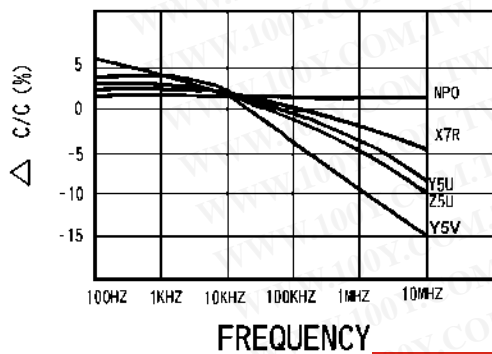
Life Test:

Capacitance Change	T.C.	Capacitance Change	Per EIA RS-198-C, method C2, Condition C, at 85±2°C, and 200% rated working voltage. (150% for parts rated over 500Vdc)
	F	30% Max	
	other	20% Max	
D.F.	T.C.	Dissipation Factor:	
	F	5.0% Max	
	other	3.0% Max	
I. R.	T.C.	Insulation Resistance	
	all	10,000 Megohms min	

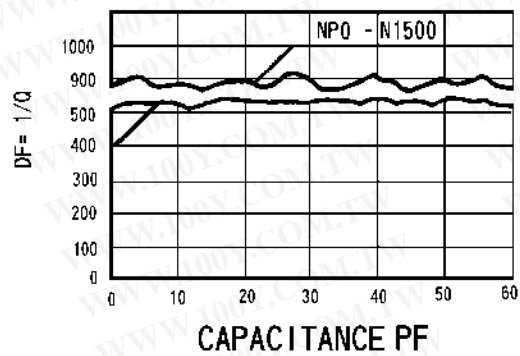
RoHS:
 Conform with RoHS 2002/95/EC.



△ CAPACITANCE VS FREQUENCY



DF AND Q



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Parts Number System

E	B	102	K	3D	5	L	1	C
1)	2)	3)	4)	5)	6)	7)	8)	9)

1) Coating:

E: Epoxy Coating

D: Durez Coating

2)Temp. Char.:

C= NPO (COG)

S= SL=P350-N1000

X= X7R

B= Y5E/Y5P

E= Y5U/Z5U

F= Y5V/Z5V

3)Capacitance:

101=10x10=100PF

222=22x100=2,200PF

103=10x1000

=10,000PF

4)Tolerance:C= ± 0.25 PFD= ± 0.5 PFJ= $\pm 5\%$ K= $\pm 10\%$ M= $\pm 20\%$

Z= +80%-20%

5)Rated Voltage:

2H= 500V DC

3A= 1KV DC

3B= 1.2KV DC

3C= 1.5KV DC

3D= 2KV DC

3E= 2.5KV DC

3F= 3KV DC

3G= 4KV DC

3H= 5KV DC

3I= 6KV DC

3J= 8KV DC

4A= 10KV DC

4B= 12KV DC

4C= 15KV DC

4D= 20KV DC

6)Lead Space:5= 5.00 \pm 1.0mm6= 6.35 \pm 1.0mm7= 7.50 \pm 1.0mm9= 9.50 \pm 1.0mm**7)Lead length:**5= 5.0 \pm 1.0mmM= 10.0 \pm 2.0mm

L= <32mm

T= TAPING REEL

A= AMMO BOX

8) Lead Style:1= Straight type
 $\varphi = 0.60 \pm 0.05$ mm2= Straight type
 $\varphi = 0.65 \pm 0.05$ mm3= Straight type
 $\varphi = 0.80 \pm 0.05$ mm4= Outside kink type
 $\varphi = 0.60 \pm 0.05$ mm5= Outside kink type
 $\varphi = 0.65 \pm 0.05$ mm6= Outside kink type
 $\varphi = 0.80 \pm 0.05$ mm7= Inside kink type
 $\varphi = 0.60 \pm 0.05$ mm8= Inside kink type
 $\varphi = 0.65 \pm 0.05$ mm9= Inside kink type
 $\varphi = 0.80 \pm 0.05$ mm**9)Mark**

B= B (T.C.)

102K (Capacitance)

2KV (Voltage)

C= 102K (Capacitance)

2KV (Voltage)

F=  (Logo)

102K (Capacitance)

2KV (Voltage)

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DIMENSION OF DC HIGH VOLTAGE DISC CAPACITORS

RoHS

T.C. W.V.DC	B (Y5E,Y5P)	R (X7R)	E (Z5U,Y5U)	F (Z5V,Y5V)	DIAMENSION MAX
500V	100-680PF	---	1,000-2,200PF	2,200PF	6Φ
	1,000PF	---	3,900PF	4,700PF	7Φ
	1,500PF	---	4,700PF	6,800PF	8Φ
	2,200PF	---	6,800PF	10,000PF	9Φ
	3,300PF	---	10,000PF	---	10Φ
	4,700PF	---	---	22,000PF	12Φ
	10,000PF	---	22,000PF	33,000PF	14Φ
	---	---	33,000PF	47,000PF	18Φ
1KV	100-470PF	100-470PF	1,000PF	1,000PF	6Φ
	560-1,000PF	560-1,000PF	1,500-2,200PF	1,500-2,200PF	7Φ
	---	---	3,300PF	4,700PF	8Φ
	1,500PF	1,500PF	3,900PF	6,800PF	9Φ
	2,200PF	2,200PF	4,700PF	10,000PF	10Φ
	3,300PF	3,300PF	10,000PF	15,000PF	12Φ
	4,700PF	4,700PF	15,000PF	22,000PF	16Φ
	6,800PF	6,800PF	22,000PF	33,000PF	18Φ
	8,200PF	8,200PF	33,000PF	47,000PF	20Φ
	10,000PF	10,000PF	---	100,000PF	22Φ
2KV	100-470PF	100-470PF	1,000PF	1,000PF	7Φ
	560PF	560PF	1,500PF	2,200PF	8Φ
	820PF	820PF	2,200PF	3,300PF	9Φ
	1,000PF	1,000PF	3,300PF	4,700PF	10Φ
	2,200PF	2,200PF	4,700PF	6,800PF	12Φ
	3,300PF	3,300PF	6,800-8,200PF	8,200PF	14Φ
	4,700PF	4,700PF	10,000PF	10,000PF	16Φ
	5,600-6,800PF	5,600-6,800PF		22,000PF	18Φ
	82,000PF	82,000PF		--	20Φ
	10,000PF	10,000PF	22,000PF		22Φ
3KV	100-330PF	100-330PF	--	1,000PF	7Φ
	390-470PF	390-470PF	1,000PF	1,500PF	8Φ
	680PF	680PF	1,500PF	2,200PF	9Φ
	820-1,000PF	820-1,000PF	2,200PF	3,300PF	10Φ
	1,500PF	1,500PF	3,300PF	4,700PF	12Φ
	1,800PF	1,800PF	4,700PF	5,600PF	14Φ
	2,000-2,700PF	2,000-2,700PF	5,600PF	10,000PF	16Φ
	3,300-3,900PF	3,300-3,900PF	6,800PF	--	18Φ
	4,700PF	4,700PF	8,200-10,000P		20Φ



T.C. W.V.DC	B (Y5E,Y5P)	E (Z5U,Y5U)	F (Z5V,Y5V)	DIAMENSION MAX
4KV	100-270PF	---	1,000PF	8Φ
	330-560PF	1,000PF	1,500PF	9Φ
	680-820PF	1,500PF	2,200PF	10Φ
	1,000PF	---	---	11Φ
	1,200PF	2,200PF	3,300PF	12Φ
	1,500PF	3,300PF	4,700PF	14Φ
	2,200PF	4,700PF	5,600PF	16Φ
	---	6,800PF	---	18Φ
	3,300PF	8,200PF	10,000PF	20Φ
	----	10,000PF	---	22Φ
5KV	220PF	---	---	8Φ
	270-330PF	---	1,000PF	9Φ
	470PF	1,000PF	---	10Φ
	680PF	1,500PF	1,500PF	12Φ
	1,000PF	---	1,800PF	13Φ
	1,500PF	2,200PF	2,200PF	15Φ
	2,200PF	----	3,300PF	18Φ
6KV	100PF	470PF	1,000PF	8Φ
	330PF	----	----	9Φ
	470PF	1,000PF	1,500PF	10Φ
	560PF	1,500PF	2,200PF	12Φ
	1,000PF	2,200PF	----	14Φ
	----	----	4,700PF	16Φ

Note: For working Voltages above 6 KV, please contact sales office.

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