

HIGH VOLTAGE TYPE

FEATURES

- 2KV, 3KV, 5KV, 10KV, AND 15KV VOLTAGE RATINGS
- HIGH PERFORMANCE AND RELIABILITY
- ECONOMICALLY PRICED
- AVAILABLE WITH FORMED LEADS
- TAPE PACKAGING OPTION FOR AUTOMATIC INSERTION

*See Part Number System for Details

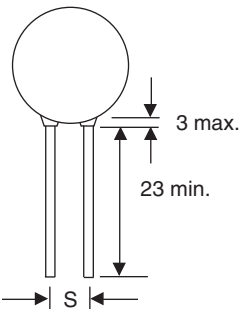


SPECIFICATIONS

Temperature Characteristics	NPO	SL	N3300	Y5P	Z5U	Z5V
Operating Temperature Range	-30°C ~ +85°C				+10°C ~ +85°C	
Capacitance Change Over Temperature Range	0±30ppm	N330 ± 500ppm	-13% ~ +12%	±10%	+22% ~ -56%	+22% ~ -82%
Dissipation Factor	0.1% max.		0.3% max.	2.5% max.	5% max.	
Insulation Resistance	Minimum 10,000 Megohms					
Dielectric Withstanding Voltage (Test Voltage)	2.5 Times Rated Voltage For Not Less Than 1 Second, 50mA Maximum					
Test Conditions	≤1,000pF; 1MHz, 1.2Vrms Max., >1,000pF; 1KHz, 1.2Vrms Max.			1KHz, 1.0V ±0.2Vrms Max.	1KHz, 0.5V ±0.1Vrms Max.	

TEMPERATURE CHARACTERISTICS: See Class I and Class II Data Sheets

Standard
500Vdc & Up



LEAD SPACING AND DIAMETER(mm)

Voltage Rating	Lead Spacing - S Bulk ±0.8mm	Lead Spacing - S Tape & Reel/Tape & Box	Lead Diameter ±0.05
2KVdc	(7~10mm Dia.):6.35mm (12~22mm Dia.):9.5mm	(7~10mm Dia.):6.35mm (12~22mm Dia.):9.5mm*	0.6mm
3KVdc	(7~10mm Dia.):6.35mm (12~22mm Dia.):9.5mm	(7~10mm Dia.):6.35mm (12~22mm Dia.):9.5mm*	(7~10mm Dia.):0.6mm (12~22mm Dia.):0.8mm
5KVdc	(7~10mm Dia.):6.35mm (12~22mm Dia.):9.5mm	(7~10mm Dia.):6.35mm (12~22mm Dia.):9.5mm*	0.8mm
10KVdc/ 15KVdc	9.5mm	9.5mm*	0.8mm

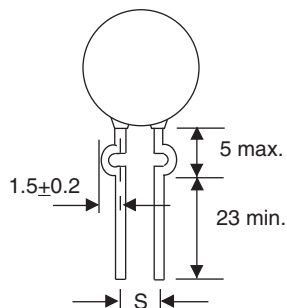
*All values are not available on tape. Consult factory for availability and leadspace options.

THICKNESS 5 ~ 7MM DEPENDENT ON CV

(thinner parts available by special order)

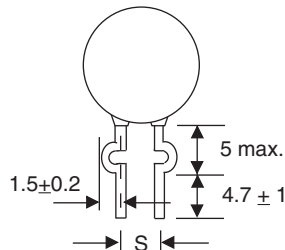
Voltage Ratings 4KVDC and Higher Have Resin Body Coating.

K Style



(BULK AND TAPED STYLES)

E Style



PART NUMBER SYSTEM

NCD 682 M 2KV Y5P K .2LL TR E

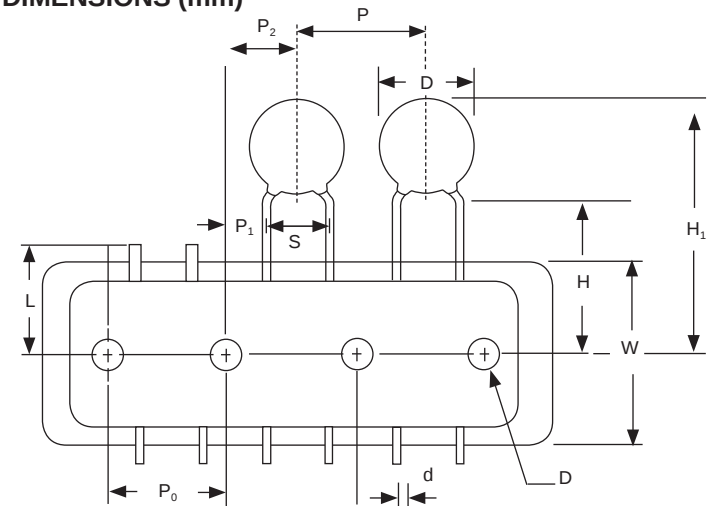
- RoHS compliant
- Optional Packaging
 - TR = Taped and Reel
 - TB = Tape and Box (Ammono)
- Optional Lead Space (LS) and/or Lead Length (LL) in inches
- Optional Lead Style
 - C = Cut Lead
 - D = Inside Kink (Short Leads)
 - E = Outward Kink (Short Leads)
 - J = Inside Kink (Long Leads)
 - K = Outward Kink (Long Leads)
- Temperature Coefficient
- Working Voltage DC
- Tolerance Code
 - C = ± 0.25pF
 - D = ± 0.5pF
 - J = ± 5%
 - K = ± 10%
 - M = ± 20%
 - Z = + 80% / - 20%
- Capacitance code, expressed in pfd, First two digits are significant, third digit is no. of zeros. "R" indicates decimal for under 10pfd.
- Series

STANDARD PRODUCTS AND MAXIMUM DIAMETER (mm) BY T.C. AND VOLTAGE

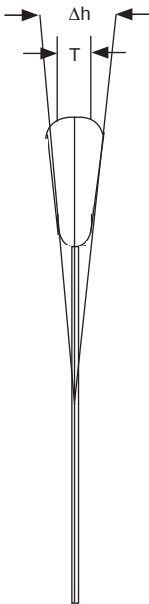
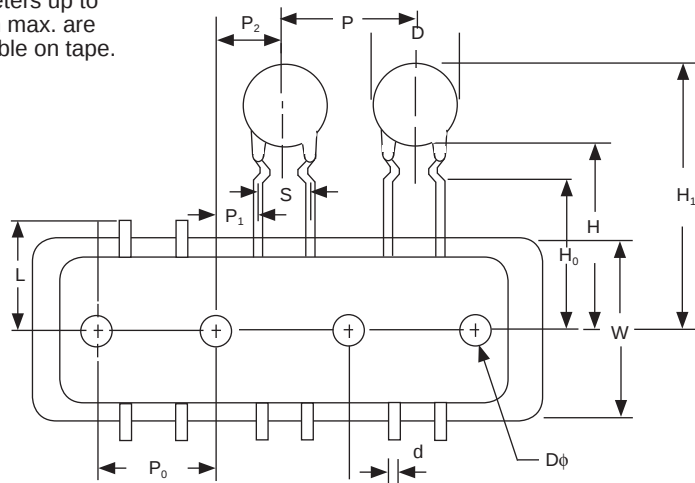
Cap. (pF)	NPO					SL					Y5P					Z5U					Z5V		
	2K	3K	5K	10K	15K	2K	3K	5K	10K	15K	2K	3K	5K	10K	15K	2K	3K	5K	10K	15K	2K	3K	5K
1.0 ~1.5	7	8	9	12	14	7	8	8	8	10													
18 ~ 27	8	9	12	14	18	7	8	8	10	12													
33	9	10	12	16	20	7	8	9	10	14													
39	9	10	14	18	22	7	8	9	12	16													
47	10	12	14	18	22	7	8	9	12	16													
68	12	12	16			8	9	10	16	18													
82	14	14	18			8	10	12	16	18													
100	14	16	18			9	10	12	16	20	7	8	8	9	10								
120	16	16	22			9	12	12	18	22	7	8	8	9	10								
150	16	18	22			10	12	14	18	24	7	8	8	9	12		8	8	8	9			
180	18	20				10	14	16	20	24	7	8	8	10	12		8	8	8	9			
220	18	22				12	14	16	22		7	8	8	12	12		8	8	8	10			
270	20	22				14	16	18	24		7	8	8	12	14		8	8	9	10			
330	22					14	18	20			7	8	9	12	16		8	8	9	10			
470						16	18	22			7	8	10	14	18		8	8	10	12			
680						18	22				7	9	12	16	20		8	9	12	14			
820						20					8	10	14	18	20		8	9	12	16			
1000						22					9	12	14	20	22	7	8	12	14	16	7	8	9
1500											10	12	16	22	26	8	9	16	16	20	7	8	10
2200											12	14	20	24		9	10	16	18	22	8	9	12
3300											14	16	24			12	12	18	22		9	10	14
4700											16	18	26			12	16	18			10	12	16
5600											18	20				14	16	20			12	12	16
6800											20	22				14	18	22			12	14	18
8200											22					16	18	24			14	14	18
10,000																16	20				14	16	20
12,000																18	22				16	18	22
15,000																20					16	18	24
18,000																22					18	20	
22,000																					18	22	
33,000																					22		

NOTE: 4KV, 6KV, 8KV, 12KV RATINGS ARE ALSO AVAILABLE. CONTACT NIC FOR MORE INFORMATION

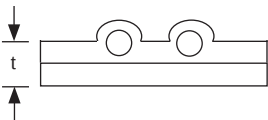
DIMENSIONS (mm)



Diameters up to 22mm max. are available on tape.



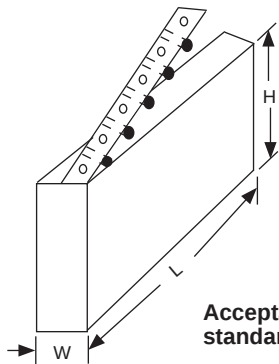
T = 2 ~ 7mm DEPENDENT ON T.C. AND CV



Symbol	D max.	d	P*	P ₀	P ₁	P ₂	S	H	H ₀	H ₁	Dφ	W	L	t	Δh
Value	12.0 22.0	0.6	12.7 25.4	12.7	5.1 3.85 3.18 2.6	6.35	2.5 5.0 6.35 7.5	20.0	16.0	Max. 32.25	4.0	18.0	Max. 11.00	0.7	0
Tolerance	---	+0.06 -0.05	±1.0	±0.2	±0.7	±1.0	±0.8 -0.2	+1.5 -1.0	±0.5	---	±0.2	±0.5	---	±0.2	±2.0

* -Dimension "P" is 12.7mm, for diameters up to 12mm, and 25.4mm for diameters 13-22mm.

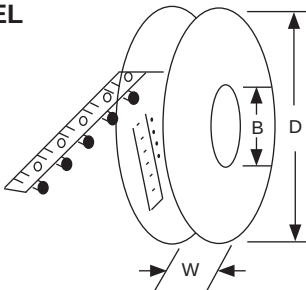
AMMO PACK



Acceptable to standard radial type cartridge.

H ≤ 372 (14.64")
L ≤ 377 (14.84")
W ≤ 55 (2.16")

REEL



Acceptable to standard radial type cartridge with a few extra accessories.

D ≤ 354 (13.93")
B ≥ 21 (.83") but
≤ 30 (1.18")
W ≤ 55 (2.16")

