HIGH VOLTAGE TYPE

FEATURES

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



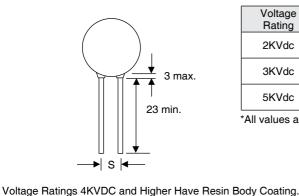
SPECIFICATIONS

Temperature Characteristics	NPO	SL	N3300	Y5P	Z5U	Z5V					
Operating Temperature Range		-30	+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.	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		=; 1MHz, 1.2Vr F; 1KHz, 1.2Vr		1KHz, 1.0V ±0.2Vrms Max.	1KHz, 0.5V ±	0.1Vrms Max.					

TEMPERATURE CHARACTERISTICS: See Class I and Class II Data Sheets

Standard

LEAD SPACING AND DIAMETER(mm)

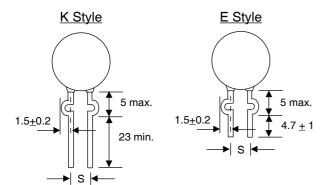


Voltage	Lead Spacing - S	Lead Spacing - S	Lead Diameter
Rating	Bulk ±0.8mm	Tape & Reel/Tape & Box	±0.05
2KVdc	(7~10mm Dia.):6.35mm (12~22mm Dia.):9.5mm	(7~10mm Dia.):6.35mm (12~22mm Dia.):9.5mm*	0.6mm
3KVdc	(7~10mm Dia.):6.35mm (12~22mm Dia.):9.5mm	(7~10mm Dia.):6.35mm (12~22mm Dia.):9.5mm*	(7~10mm Dia.):0.6mm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

*See Part Number System for Details

THICKNESS 5 ~ 7MM DEPENDENT ON CV

(thinner parts available by special order)



(BULK AND TAPED STYLES)

NCD 682 M 2KV Y5P <u>.2LS TR .25LS</u> RoHS compliant .25LS = .25" Taped LS Option **Optional Packaging** TR = Taped and Reel TB = Tape and Box (Ammo) Optional Cut Lead Space (LS) and/or Lead Length (LL) in inches Optional Lead Style C = Cut Lead E = Outward Kink (Short Leads) K = Outward Kink (Long Leads) Temperature Coefficient Working Voltage DC **Tolerance Code** $C = \pm 0.25pF$ $K = \pm 10\%$ $D = \pm 0.5pF$ $M = \pm 20\%$ $J=\pm\,5\%$ 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

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

Ceramic Disc Capacitors

NCD Series High Voltage

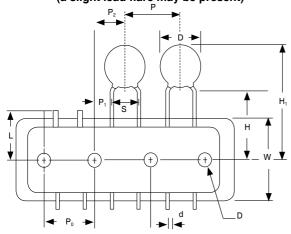
STANDARD PRODUCTS AND MAXIMUM DIAMETER (mm) BY T.C. AND VOLTAGE

Con	NPO			SL				Y5P			Z5U			Z5V		
Cap.							Workir	g Voltage	e (Vdc)	•						
(pF)	2K	3K	5K	2K	3K	5K	2K	3K	5K	2K	3K	5K	2K	3K	5K	
1.0 ~12	7	8	9	7	8	8										
15 ~ 27	8	9		7	8	8										
33	9	10		7	8	9										
39	9	10		7	8	9										
47	10	12		7	8	9										
68	12	12		8	9	10										
82				8	10	12										
100				9	10	12	7	8	8							
120				9	12	12	7	8	8							
150				10	12	14	7	8	8		8	8				
180				10	14	16	7	8	8		8	8				
220				12	14	16	7	8	8		8	8				
270				14	16	18	7	8	8		8	8				
330				14	18	20	7	8	9		8	8				
470				16	18	22	7	8	10		8	8				
680				18	22		7	9	12		8	9				
820				20			8	10	14		8	9				
1000				22			9	12	14	7	8	12	7	8	9	
1500							10	12	16	8	9	16	7	8	10	
2200							12	14	20	9	10	16	8	9	12	
3300							14	16	24	12	12	18	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			

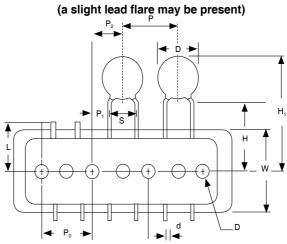
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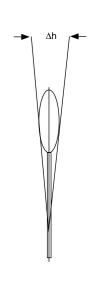
DIMENSIONS (mm)







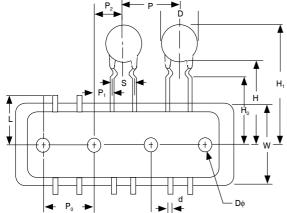


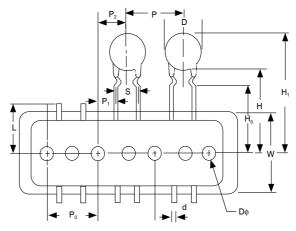


Crimped Leads ≤12mm diameter Inward (J) & Outward (K) are available







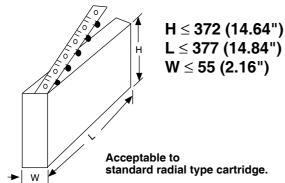


Symbol	D max.	d	Р	P _o	P ₁	P ₂	S	Н	H _o	H,	Дφ	W	L	t	Δh
Value	≤ 12	0.6	12.7		5.1	0.05	2.5	20.0		32.25	max. 4.0	18.0	11.0 max.	0.6	0.0
					3.85	6.35	5.0			max.					
					3.18 8.95		6.35		with						
	>12 ~ 23	0.6 or 0.8*	25.4	12.7		12.7	7.5		Crimped Leads 16.0	H max.					
					7.7		9.5			D max.					
Tolerance	≤ 12	+0.06	±1.0	±0.2	±0.7	±1.0	+0.8	+1.5 -1.0	.0.5		±0.2	±0.5		±0.3	±2.0
	>12 ~ 23	-0.05		±0.2	±1.5	±1.3			±0.5						

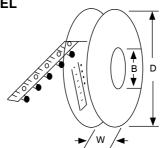
Specifications are subject to change

^{*}Lead diameter dependent on capacitor diameter. Contact NIC for details

AMMO PACK







D \(\leq \text{354 (13.93")}

B ≥ 21 (.83") but ≤ 30 (1.18")

W \(\frac{1}{2} \) 55 (2.16")

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

PART NUMBER SUFFIX FOR OPTIONAL TAPE & REEL OR TAPE & BOX PACKAGING

Tape & Reel Straight Lead Options

TRF = Tape & Reel with 5mm lead-space

TR.100LSF = Tape & Reel with 2.0mm lead-space

TR.250LSF = Tape & Reel with 6.35mm lead-space

TR.300LSF = Tape & Reel with 7.5mm lead-space

TR.375LSF = Tape & Reel with 9.5mm lead-space

Tape & Reel Crimped Lead Options (J = Inward Crimp, K = Outward Crimp)

JTRF or KTRF = Tape & Reel with 5mm lead-space

JTR.250LSF or KTR.250LSF = Tape & Reel with 6.35mm lead-space

JTR.300LSF or KTR.300LSF = Tape & Reel with 7.5mm lead-space

JTR.375LSF or KTR.375LSF = Tape & Reel with 9.5mm lead-space

Tape & Box Straight Lead Options

TBF = Tape & Reel with 5mm lead-space

TB.100LSF = Tape & Reel with 2.0mm lead-space

TB.250LSF = Tape & Reel with 6.35mm lead-space

TB.300LSF = Tape & Reel with 7.5mm lead-space

TB.375LSF = Tape & Reel with 9.5mm lead-space

Tape & Box Crimped Lead Options (J = Inward Crimp, K = Outward Crimp)

JTBF or KTBF = Tape & Reel with 5mm lead-space

JTB.250LSF or KTBR.250LSF = Tape & Reel with 6.35mm lead-space

JTB.300LSF or KTB.300LSF = Tape & Reel with 7.5mm lead-space

JTB.375LSF or KTB.375LSF = Tape & Reel with 9.5mm lead-space

Notes:

1. The above lead-space options may not be available in all part diameters. Contact NIC for details.

2. Inward "J style" and outward "K style" may not be available in all part diameters and voltages. Contact NIC for details.

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