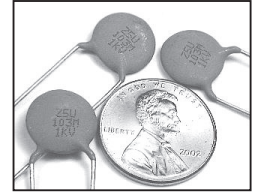


SEMICONDUCTOR TYPE

FEATURES

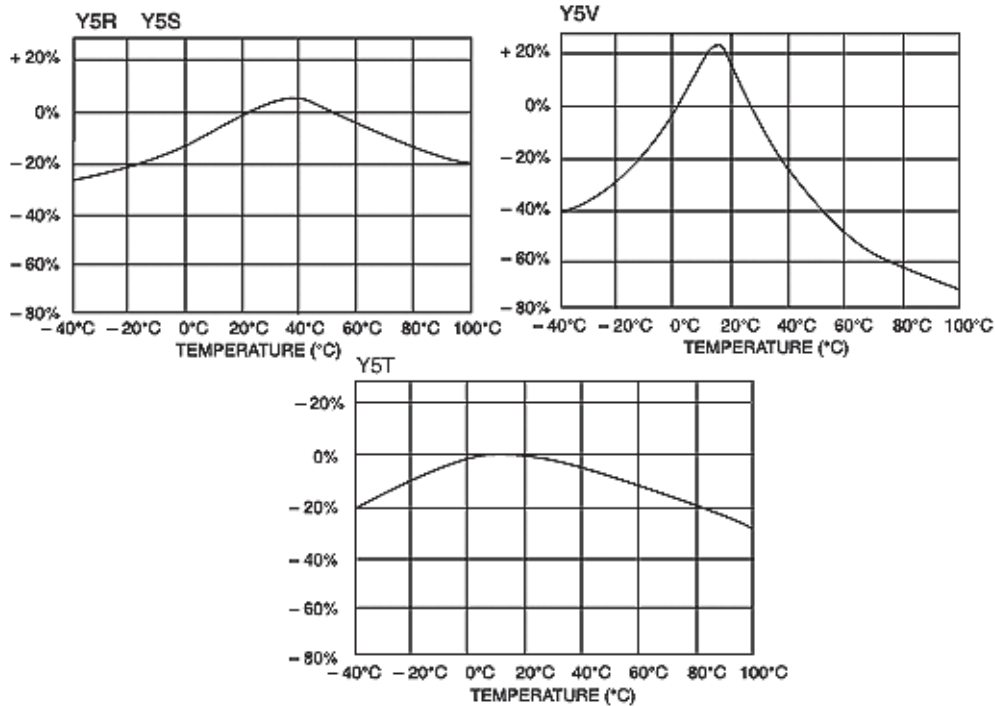
- HIGH VOLUMETRIC EFFICIENCY
- ECONOMICALLY PRICED
- AVAILABLE WITH FORMED LEADS AND ON TAPE FOR AUTOMATIC INSERTION



SPECIFICATIONS

Temperature Characteristics	Y5V
Operating Temperature Range	-30°C ~ +85°C
Standard Tolerance	+80%/-20% (Z)
Capacitance Change Over Temperature Range	-82% ~ +20%
Dissipation Factor	Maximum 8%
Insulation Resistance	12Vdc = 0.004Megohms, 16 ~ 50Vdc = 1Megohm
Working Voltage Range	12Vdc ~ 50Vdc
Dielectric Withstanding Voltage (Test Voltage)	1.25 Times Rated Voltage For Not Less Than 1 Second, 50mA Maximum
Test Conditions	1KHz, 0.5V ± 0.1Vrms, +25°C

PERCENT OF CAPACITANCE CHANGE



NCD Series Ceramic Disc Capacitors



Body Diameter	Lead Spacing (mm) - S			
	Standard Bulk	Standard T&R	Optional Bulk mm (inches)	Optional T&R mm (inches)
5 ~ 11	6.35 ± 0.8	5.0 ± 0.8	5.0 ± 0.8 (0.200LS)	2.5 ± 0.8 (0.100LS)
≥12	6.35 ± 0.8	5.0 ± 0.8	7.5 ± 0.8 (0.295LS)	7.5 ± 0.8 (0.295LS)
			10.0 ± 0.8 (0.395LS)	10.0 ± 0.8 (0.395LS)

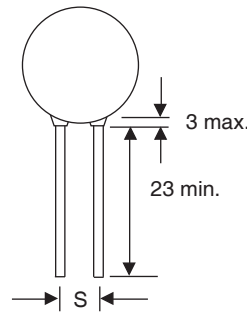
LEAD DIAMETER

0.6MM IS STANDARD

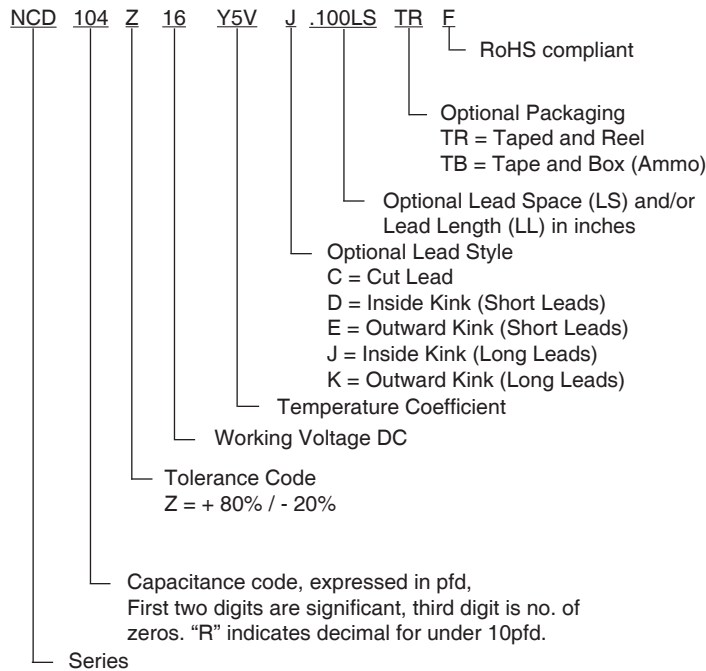
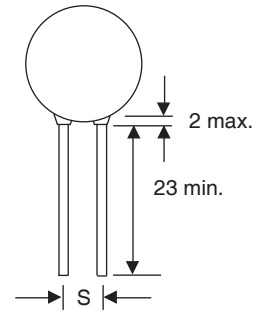
BODY THICKNESS

2 ~ 4MM DEPENDENT ON CV

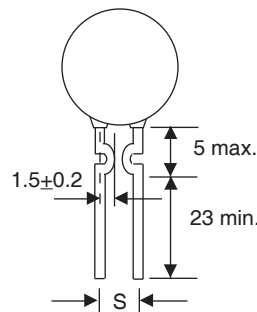
Standard 500Vdc & Up



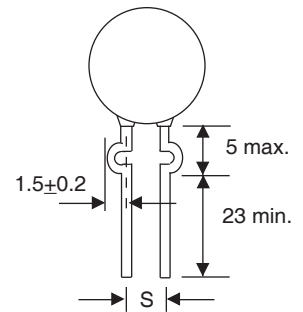
Low Voltage 100Vdc & Below



J Style

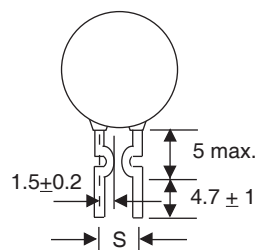


K Style

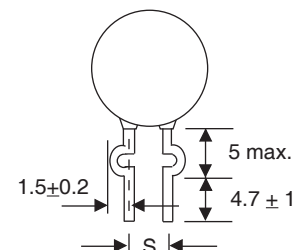


(BULK AND TAPED STYLES)

D Style



E Style



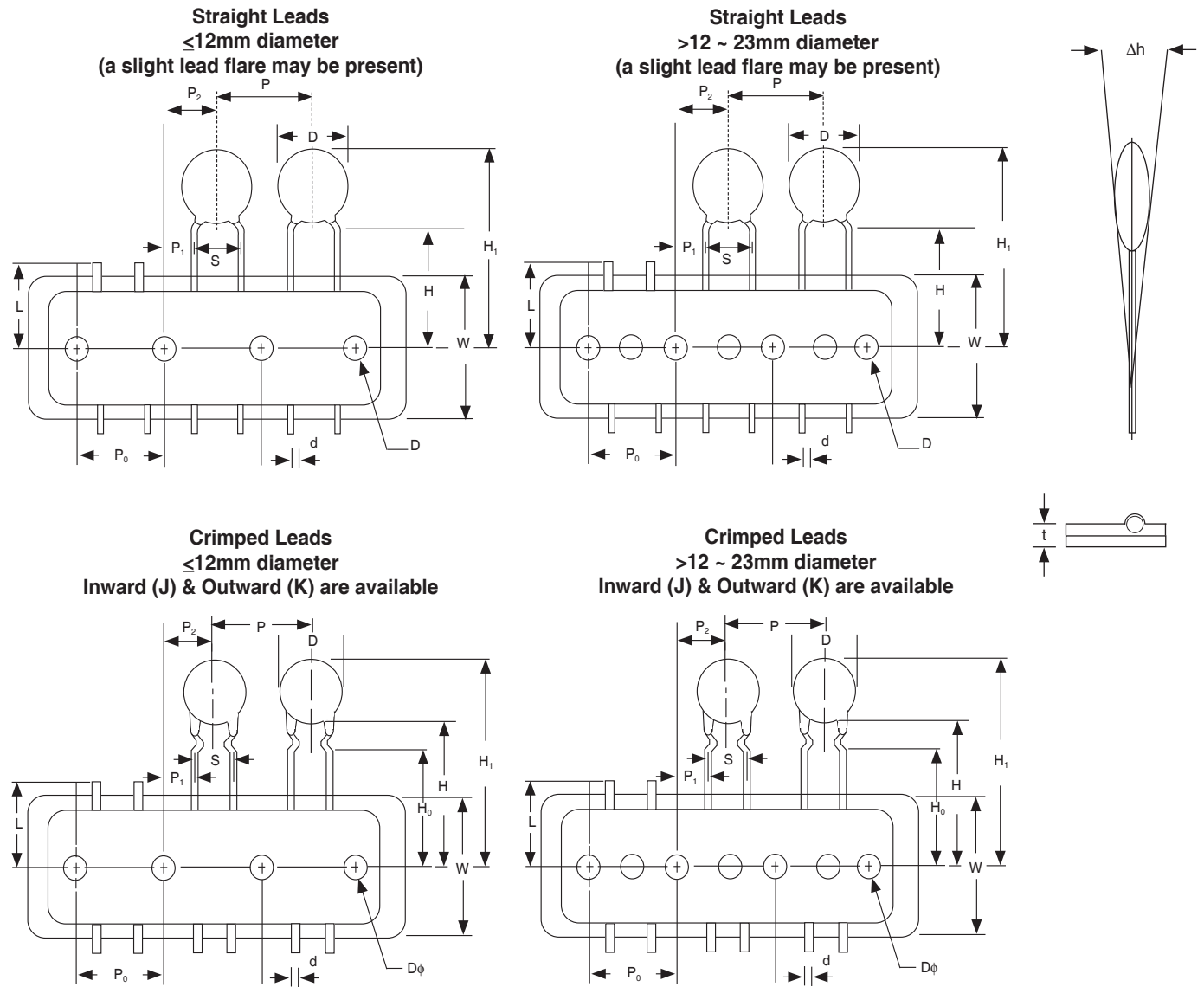
(BULK ONLY)

STANDARD PRODUCTS AND MAXIMUM DIAMETER (mm)

Cap. (µF)	Y5V			
	Working Voltage (Vdc)			
	12	16	25	50
0.01	5	5	5	5
0.022	6	6	6	6
0.033	6	6	6	7
0.047	6	6	6	7
0.068	7	7	7	7
0.1	7	7	7	8
0.22	10	10	10	-

NIC RESERVES THE RIGHT TO REQUEST MINIMUM QUANTITIES ON CERTAIN VALUES

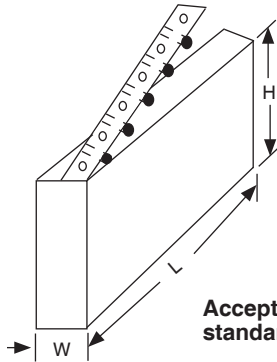
DIMENSIONS (mm)



Symbol	D max.	d	P	P ₀	P ₁	P ₂	S	H	H ₀	H ₁	Dφ	W	L	t	Δh
Value	≤ 12	0.6	12.7	12.7	5.1	6.35	2.5	20.0	Applies to Parts with Crimped Leads	32.25 max.	4.0	18.0	11.0 max.	0.6	0.0
					3.85		5.0								
					3.18		6.35								
	>12 ~ 23	0.6 or 0.8*	25.4	8.95	12.7	7.5	9.5	16.0	H max. + D max.						
Tolerance	≤ 12	+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	---	±0.3	±2.0
	>12 ~ 23				±1.5	±1.3									

*Lead diameter dependent on capacitor diameter. Contact NIC for details

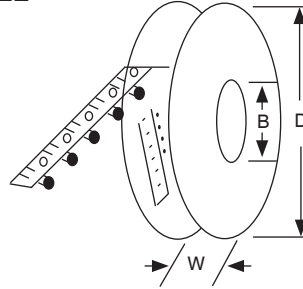
AMMO PACK



$H \leq 372$ (14.64")
 $L \leq 377$ (14.84")
 $W \leq 55$ (2.16")

Acceptable to standard radial type cartridge.

REEL



$D \leq 354$ (13.93")
 $B \geq 21$ (.83") but
 ≤ 30 (1.18")
 $W \leq 55$ (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 KTB.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.