

GENERAL PURPOSE, HI-K (DIELECTRIC CONSTANT Class II/III) TYPE



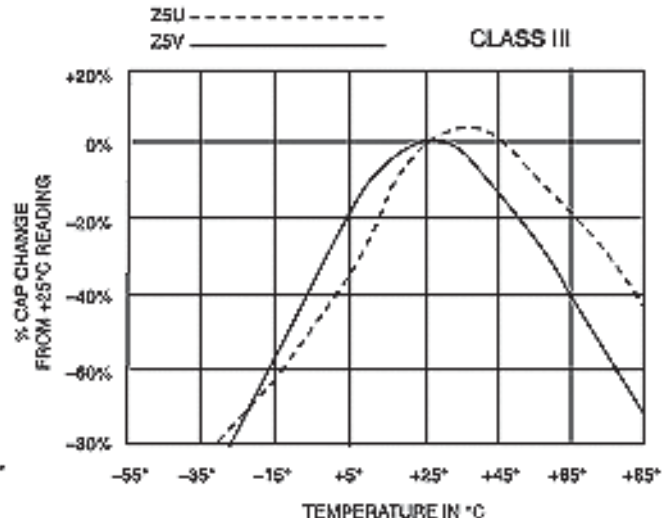
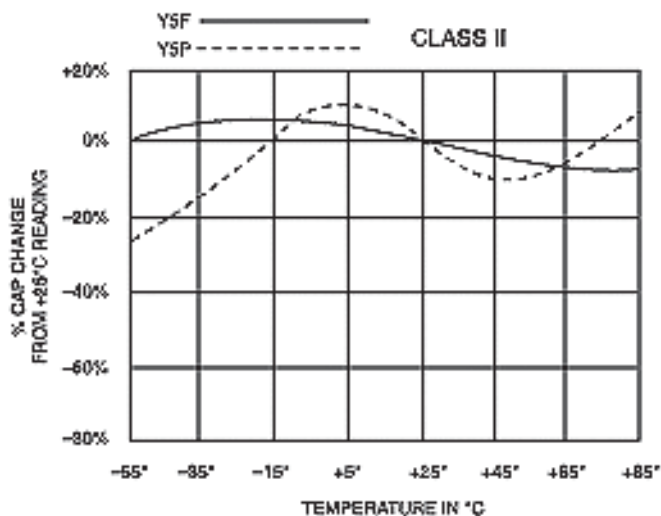
FEATURES

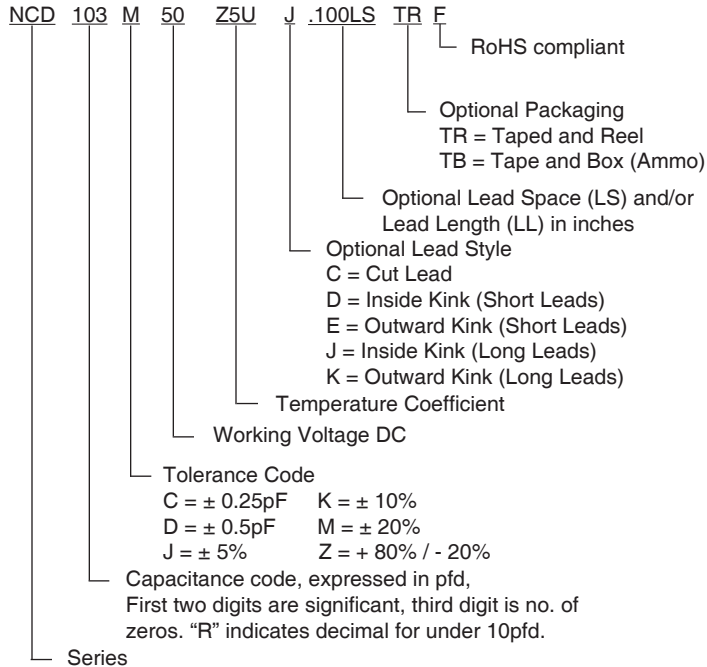
- WIDE SELECTION OF TEMPERATURE CHARACTERISTICS
 - HIGH INSULATION RESISTANCE
 - EXCELLENT HIGH FREQUENCY CHARACTERISTICS
 - ECONOMICALLY PRICED
 - AVAILABLE WITH FORMED LEADS AND ON TAPE FOR AUTOMATIC INSERTION
- *See Part Number System for Details

SPECIFICATIONS

Temperature Characteristics		Y5F	Y5P	Z5U	Z5V
Operating Temperature Range		-30°C ~ +85°C	-30°C ~ +85°C	+10°C ~ +85°C	+10°C ~ +85°C
Capacitance Range		100pF ~ 0.01μF	100pF ~ 0.022μF	0.001μF ~ 0.01μF	0.001μF ~ 0.1μF
Standard Tolerance		±10% (K)	±10% (K)	±20% (M)	+80%/-20% (Z)
Capacitance Change Over Temperature Range		±7.5%	±10%	-55% ~ +22	-82% ~ +22%
Dissipation Factor		2.5%*	2.5%*	5%	5%
Insulation Resistance		Minimum 10,000 Megohms			
Working Voltage Range		50Vdc ~ 1KVdc			
Dielectric Withstanding Voltage (Test Voltage)		2.5 Times Rated Voltage For Not Less Than 1 Second, 50mA Maximum			
Load Life Test @ 85°C 1,000 Hours	Cap. Change	±10%	±10%	±20%	±30%
	D.F. (max.)	4%	4%	7.5%	7.5%
	I.R. (min.)	1,000 Megohms			
Test Conditions		1KHz, 1.0V ±0.2Vrms		1KHz, 0.5V ± 0.1Vrms	

* Special low dissipation factor (1.0% max.) Y5F and Y5P dielectrics are also available. Contact NIC for availability.





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

LEAD DIAMETER
0.6MM IS STANDARD

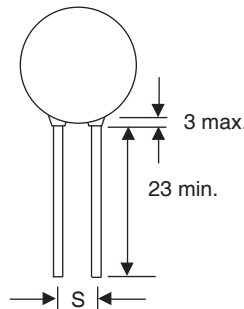
BODY THICKNESS
2 ~ 4MM DEPENDENT ON CV

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

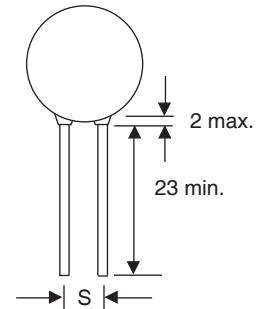
Cap. (pF/ μF)	Y5F/Y5P*			Z5U			Z5V		
	Working Voltage (Vdc)								
	50 100	500	1K	50 100	500	1K	50 100	500	1K
100~470pF	6	6	6	-	-	-	-	-	-
560	6	6	6	-	-	-	-	-	-
680	6	6	7	-	-	-	-	-	-
750	6	6	7	-	-	-	-	-	-
820	6	6	7	-	-	-	-	-	-
0.001 μF	6	7	7	6	6	6	-	6	6
0.0015	6	8	8	6	6	7	-	6	6
0.0022	6	9	10	6	7	7	6	6	6
0.0027	7	10	12	6	7	8	6	6	7
0.0033	7	10	14	6	7	9	6	7	8
0.0047	8	12	14	6	8	10	6	8	8
0.0056	9	14	16	6	9	10	6	8	9
0.0068	9	14	16	7	9	12	6	8	10
0.0082	10	16	18	7	10	12	6	9	10
0.01	12	16	20	7	10	12	6	9	10
0.015	14	21	-	9	14	16	7	10	12
0.022	-	-	-	10	16	18	8	14	16
0.033	-	-	-	8	18	22	7	16	18
0.047	-	-	-	8	21	24	7	16	21
0.068	-	-	-	8/9	24	-	8	16	-
0.1	-	-	-	8/9	26	-	8/9	17	-

*.0047 μF AND ABOVE NOT AVAILABLE IN Y5F, PLEASE USE Y5P.
NIC RESERVES THE RIGHT TO REQUEST MINIMUM QUANTITIES ON CERTAIN VALUES.

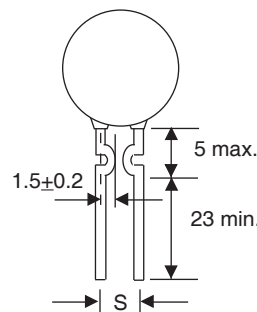
Standard
500Vdc & Up



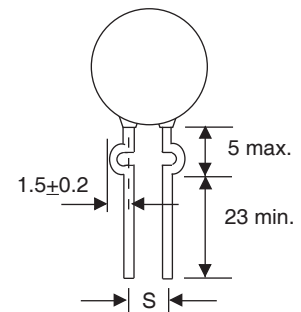
Low Voltage
100Vdc & Below



J Style

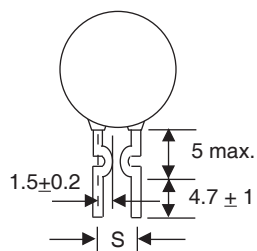


K Style

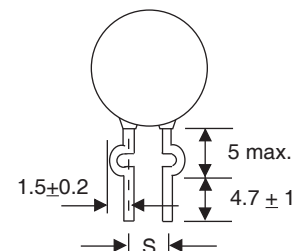


(BULK AND TAPED STYLES)

D Style



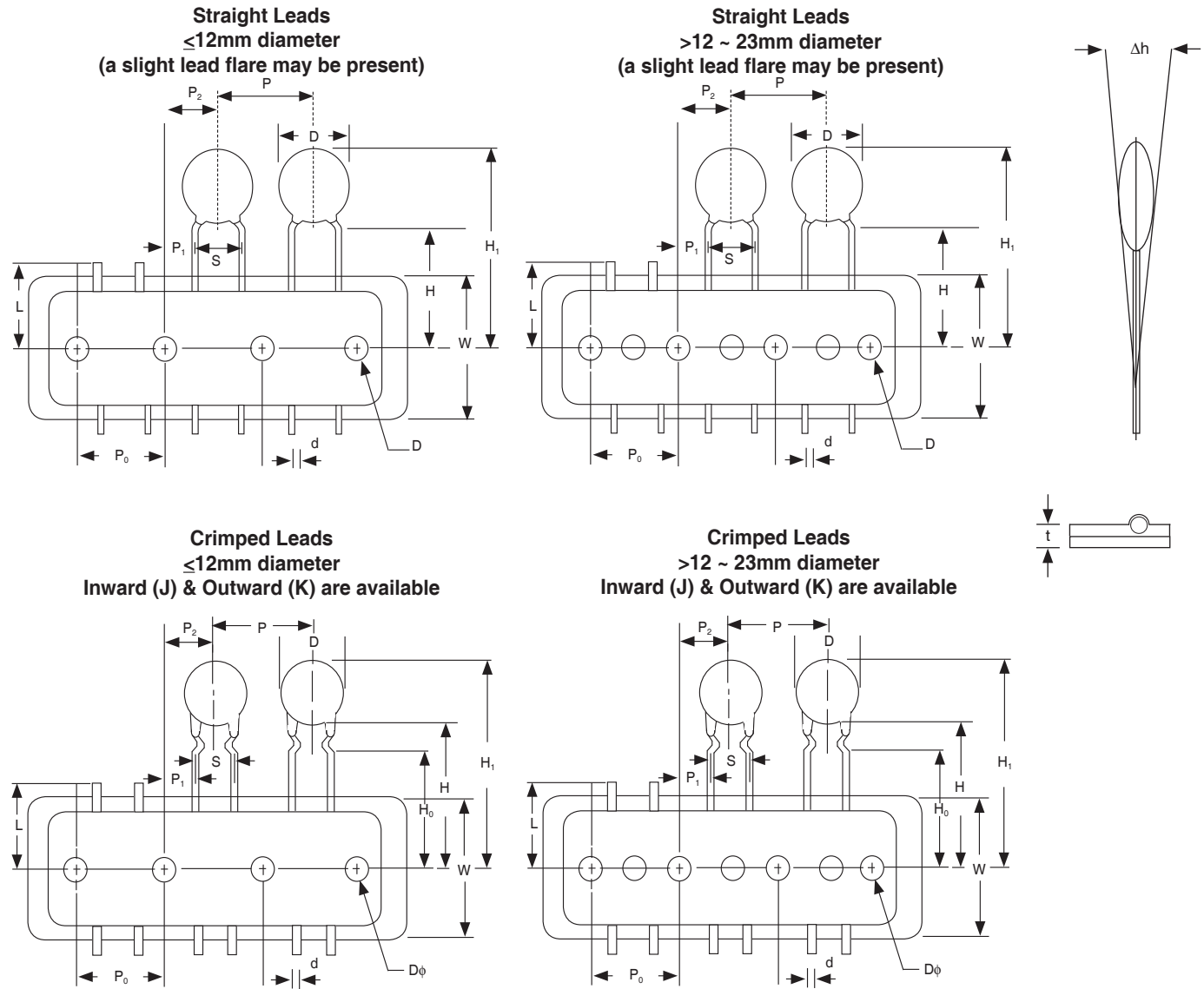
E Style



(BULK ONLY)



DIMENSIONS (mm)

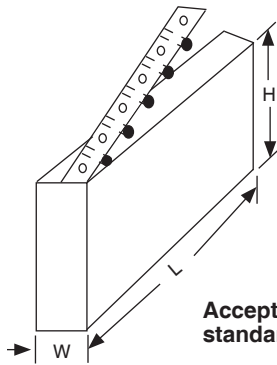


Symbol	D max.	d	P	P ₀	P ₁	P ₂	S	H	H ₀	H ₁	D _φ	W	L	t	Δh
Value	≤ 12	0.6 or 0.8*	12.7	12.7	5.1	6.35	2.5	20.0	Applies to Parts with Crimped Leads 16.0	32.25 max.	4.0	18.0	11.0 max.	0.6	0.0
					3.85		5.0								
	3.18				6.35										
	8.95				7.5										
>12 ~ 23					7.7	12.7	9.5		H max. + D max.						
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										

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



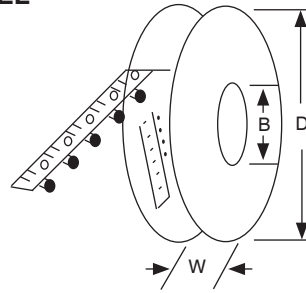
AMMO PACK



$H \leq 372$ (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.