

### SEMICONDUCTOR TYPE

#### FEATURES

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

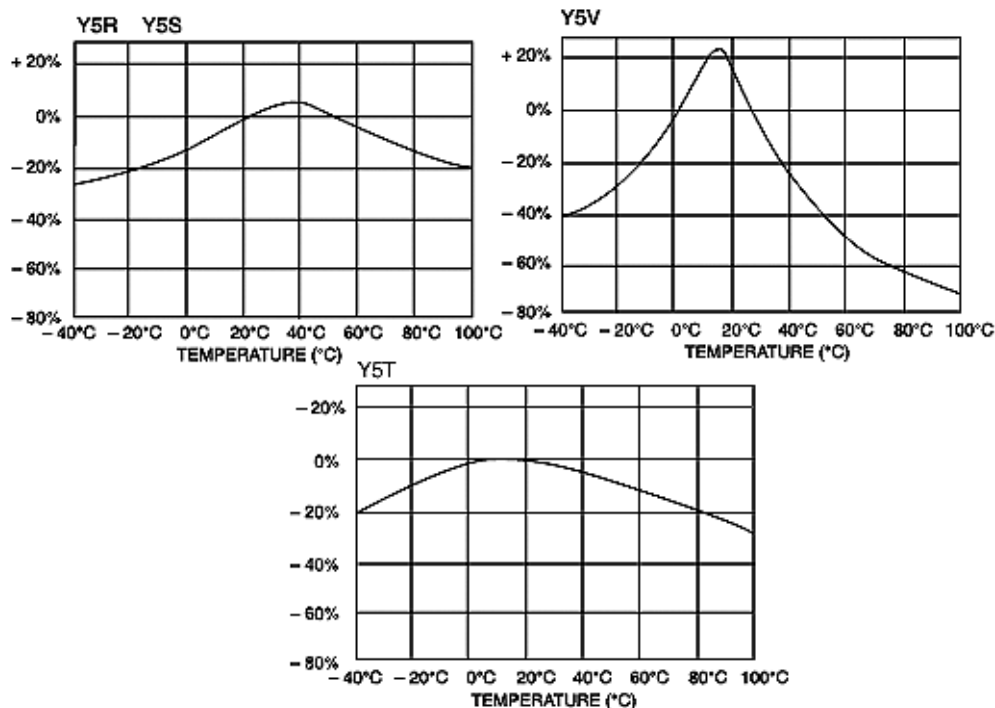
\*See Part Number System for Details



#### SPECIFICATIONS

Temperature Characteristics	Y5R	Y5S	Y5T	Y5V
Operating Temperature Range	-30°C ~ +85°C			
Standard Tolerance	±20% (M)			
Capacitance Change Over Temperature Range	±20%	±22%	-33% ~ +22	-82% ~ +20%
Dissipation Factor	Maximum 8%			
Insulation Resistance	12Vdc = 0.004Megohms		16Vdc = 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



# Ceramic Disc Capacitors

## NCD Series Class III

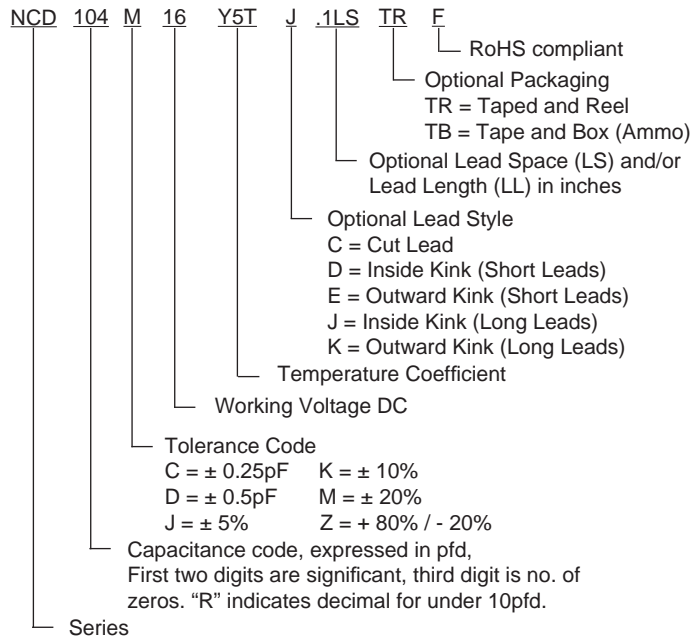
Lead Spacing (mm) - S				
Body Diameter	Standard Bulk	Standard T&R	Optional Bulk mm (inches)	Optional T&R mm (inches)
5 ~ 11	6.35 ± 0.8	5.0 ± 0.8	5.0 ± 0.8 (0.2LS)	2.5 ± 0.8 (0.1LS)
≥12	6.35 ± 0.8	5.0 ± 0.8	7.5 ± 0.8 (0.295LS) 10.0 ± 0.8 (0.395LS)	7.5 ± 0.8 (0.295LS) 10.0 ± 0.8 (0.395LS)

### LEAD DIAMETER

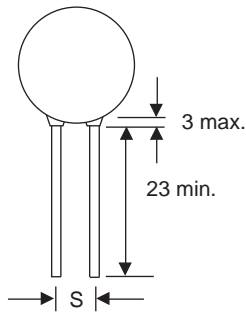
0.6MM IS STANDARD

### BODY THICKNESS

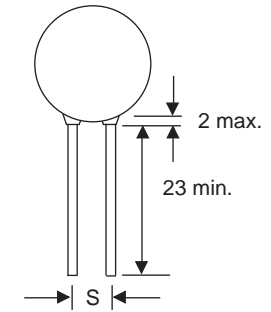
2 ~ 4MM DEPENDENT ON CV



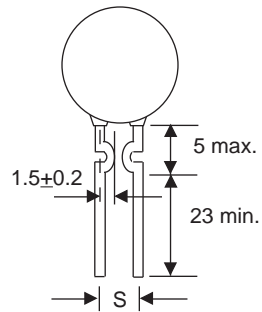
**Standard**  
500Vdc & Up



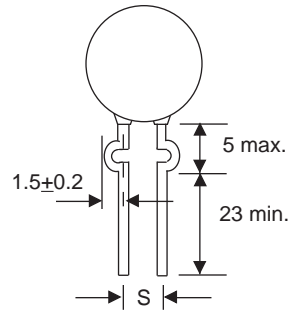
**Low Voltage**  
100Vdc & Below



**J Style**

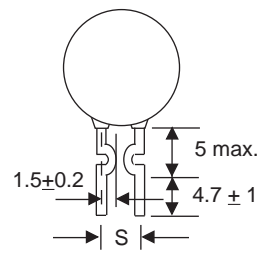


**K Style**

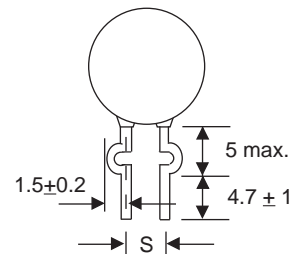


(BULK AND TAPED STYLES)

**D Style**



**E Style**



(BULK ONLY)

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

Cap. (µF)	Y5R/Y5S				Y5T				Y5V			
	Working Voltage (Vdc)											
	12	16	25	50	12	16	25	50	12	16	25	50
0.01	6	6	6	6	6	6	6	6	5	5	5	5
0.022	7	7	7	7	7	7	7	8	6	6	6	6
0.033	7	7	7	7	7	7	7	9	6	6	6	7
0.047	9	9	9	9	7	7	7	9	6	6	6	7
0.068	10	10	10	10	8	8	8	12	7	7	7	7
0.1	10	10	10	12	10	10	10	12	7	7	7	8
0.22	-	-	-	-	-	-	-	-	10	10	10	-

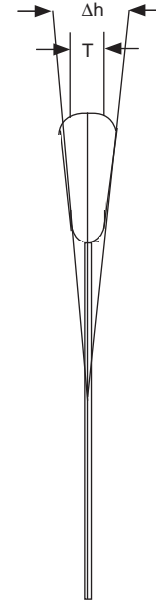
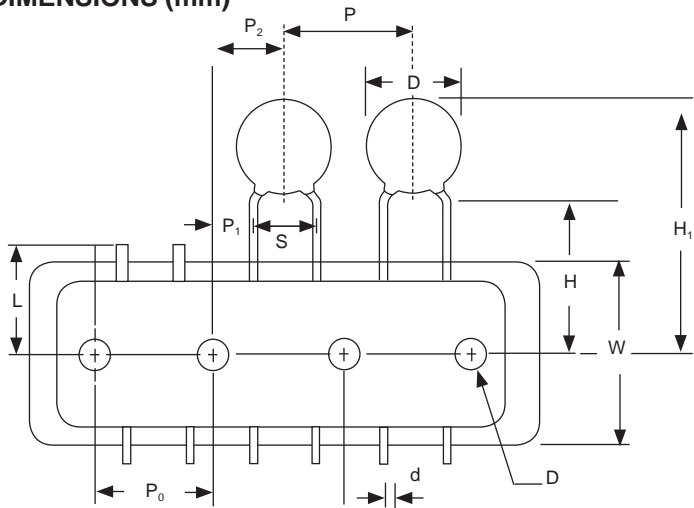
NIC RESERVES THE RIGHT TO REQUEST MINIMUM QUANTITIES ON CERTAIN VALUES



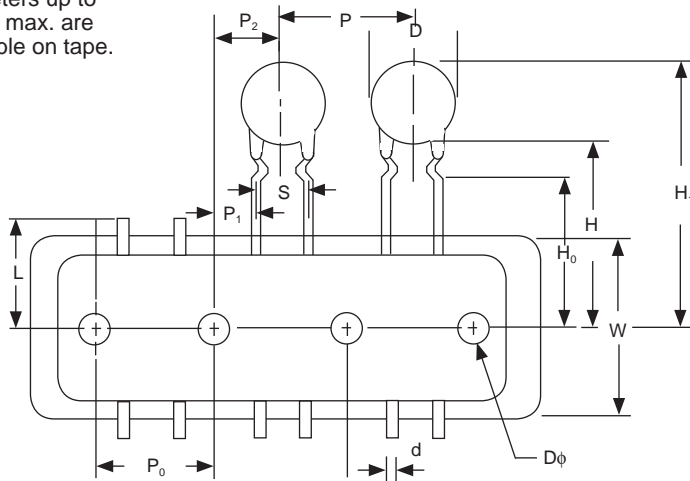
# Ceramic Disc Capacitors

## Taping Specifications

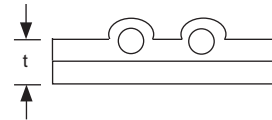
### DIMENSIONS (mm)



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



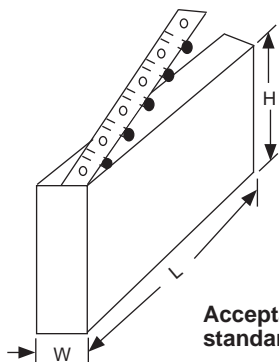
**T = 2 ~ 7mm DEPENDENT ON T.C. AND CV**



Symbol	D max.	d	P*	P <sub>0</sub>	P <sub>1</sub>	P <sub>2</sub>	S	H	H <sub>0</sub>	H <sub>1</sub>	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.

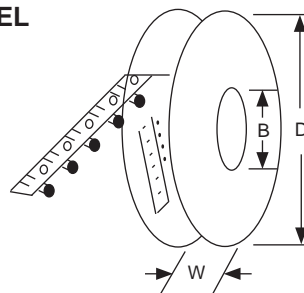
### AMMO PACK



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

Acceptable to standard radial type cartridge.

### REEL



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

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



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HS102M25V12.5X16F](#) [NRCA12F1001TRQYF](#) [NRC-S06F2212TRF](#) [NCD180J1KVNPOJTRF](#) [NRC-S06F1692TRF](#)  
[NCD102M1KVZ5U.250STRF](#) [NTC-T105K20TRAF](#) [NMC-P1206X7R104K100TRPF](#) [NMC-H1206NPO471K1KVTRPLPF](#) [NML04J9N1TRF](#)  
[NRSNA4I4J150TR40KF](#) [NCC0805F261HTRF](#) [NRWA470M35V6.3X11TBF](#) [NACE221M16V6.3X8TR13F](#) [NRSS332M50V18X35.5F](#)  
[NDTM106K25F1TRF](#) [NACZ221M50V10X10.5TR13F](#) [NCM15X7R103K50F](#) [NCD103M1KVZ5UF](#) [NRSS682M25V18X35.5F](#)  
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