





TEMPERATURE COMPENSATING AND TEMPERATURE STABLE TYPES (CLASS I)

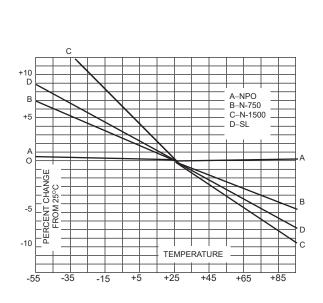
FEATURES

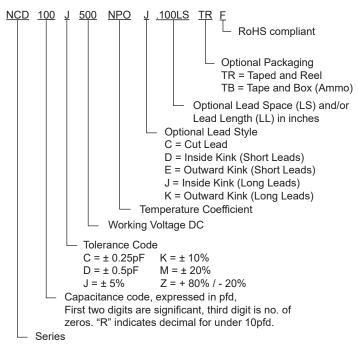
- PROVIDES AN ACCURATE, PREDICTABLE LINEAR CAPACITANCE CHANGE WITH VARIATIONS IN OPERATING TEMPERATURE
- NPO TYPES PROVIDE DRIFT FREE PERFORMANCE
- TIGHT TOLERANCES AVAILABLE
- AVAILABLE WITH FORMED LEADS AND ON TAPE



SPECIFICATIONS

	erature cteristics	NPO	N750	SL	N1500						
Operating Temperature Range		-30°C ~ +85°C									
Capacita	nce Range	0.5 ~ 22pF	10 ~ 1000pF	22 ~ 1000pF							
Standard	Tolerance	±5% (J)									
	Change Over ture Range	±1%	-5% ~ +7.5%	-5% ~ +9%	-10% ~ +20%						
Q Factor (Min. 1MHz)		1000 (C≥30pF) 500 (C≥3 400+20C (<30pF) 200+10C (<									
Insulation	Resistance	Minimum 10,000 Megohms									
Temperatui	re Coefficient	0±60ppm	0±60ppm N750±120ppm N330±500ppm N1500±25								
Working Vo	oltage Range	50Vdc ~ 1KVdc									
Dielectric Withstanding Voltage (Test Voltage)		2.5 Times Rated Voltage For Not Less Than 1 Second, 50mA Maximum									
Load Life	Cap. Change	±3%	±15%	±30%	±50%						
Test @ 85°C	Q Factor (min.)										
1,000 Hours	I.R. (min.)										
Test Conditions		<1,000pF; 1MHz, 1.2Vrms Max., ≥1,000pF; 1KHz, 1.2Vrms Max.									





Ceramic Disc Capacitors

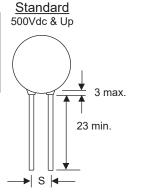


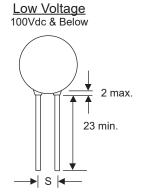




Lead Spacing (mm) - S											
Body	Standard	Standard	Optional Bulk	Optional T&R							
Diameter	Bulk	T&R	mm (inches)	mm (inches)							
5 ~ 11	6.35 ± 0.8	5.0 ± 0.8	5.0 ± 0.8 (0.200LS)	2.5 ± 0.8 (0.100LS)							
>12	6.35 ± 0.8	5.0 ± 0.8	7.5 ± 0.8 (0.295LS)	7.5 ± 0.8 (0.295LS)*							
1	0.33 ± 0.6	5.0 ± 0.6	10.0 ± 0.8 (0.395LS)	10.0 ± 0.8 (0.395LS)*							

*T&R 7.5mm & 10mm LS not available on 270pF, 330pF & 470pF N750 parts

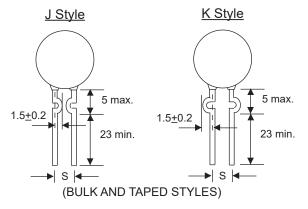


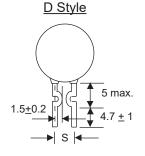


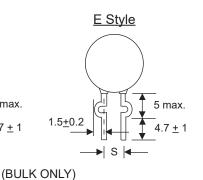
<u>LEAD DIAMETER</u> 0.6MM IS STANDARD

BODY THICKNESS

2 ~ 4MM DEPENDENT ON CV







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

	NPO				N750		SL			N1500		
Cap.					Wo	rking Vo	Itage (\	/dc)				
(pF)	50 100	500	1K	50 100	500	1K	50 100	500	1K	50 100	500	1K
0.5 ~ 9.1	6	6	6	-	-	-	-	-	-	-	-	-
10	6	6	6	-	-	-	6	6	6	-	-	-
12	6	6	6	-	-	-	6	6	6	-	-	-
15	6	6	6	-	-	-	6	6	6	-	-	-
18	6	6	-	-	-	-	6	6	6	-	-	-
22	6	6	6	6	6	6	6	6	6	6	6	6
27	-	-	-	6	6	6	6	6	6	6	6	6
33	-	-	-	6	6	7	6	6	6	6	6	6
39	-	-	-	6	6	7	6	6	6	6	6	6
47	-	-	-	6	7	8	6	6	6	6	6	6
56	-	-	-	7	7	8	6	6	6	6	6	6
68	-	-	-	7	7	9	6	6	6	6	6	6
82	-	-	-	7	7	9	6	6	7	6	6	7
100	-	-	-	8	8	10	6	7	7	6	7	7
120	-	-	-	8	8	10	6	7	7	6	7	7
150	-	-	-	9	9	12	6	8	8	6	7	8
180	-	-	-	9	9	14	6	8	8	6	8	8
220	-	-	-	10	10	16	7	9	9	7	9	9
270	-	-	-	12	12	-	8	9	10	8	9	10
330	-	-	-	14	14	-	8	12	12	8	12	12
470	-	-	-	16	16	-	9	14	14	9	14	14
560	-	-	-	-	-	-	10	14	14	10	14	14
680	-	-	-	-	-	-	11	16	16	10	16	16
750	-	-	-	-	-	-	12	16	16	12	16	16
820	-	-	-	-	-	-	14	16	16	12	16	16
1000	-	-	-	-	-	-	14	16	16	14	16	16

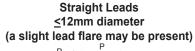
NIC RESERVES THE RIGHT TO REQUEST MINIMUM QUANTITIES ON CERTAIN VALUES

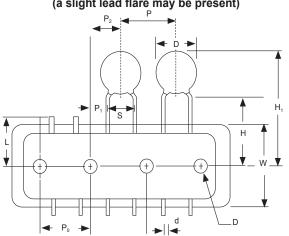




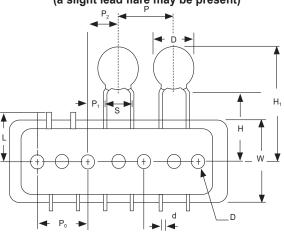


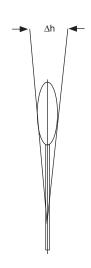
DIMENSIONS (mm)





Straight Leads
>12 ~ 23mm diameter
(a slight lead flare may be present)

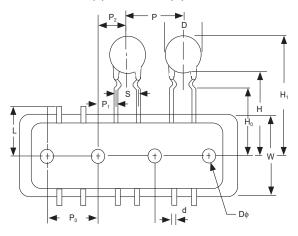


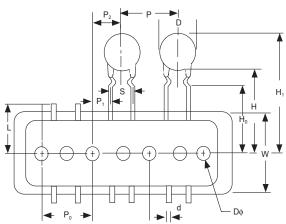


Crimped Leads ≤12mm diameter Inward (J) & Outward (K) are available

Crimped Leads >12 ~ 23mm diameter Inward (J) & Outward (K) are available







Symbol	D max.	d	Р	P _o	P ₁	P ₂	S	Н	H _o	H ₁	Dφ	W	L	t	Δh
	≤ 12	0.6	12.7	12.7	5.1	l —	2.5		Applies to Parts with Crimped Leads H max. 16.0 + D max.						
					3.85		5.0	20.0							
					3.18		6.35								
Value	>12 ~ 23	0.6 or 0.8*	25.4		8.95	- 12.7	7.5			H max. +	4.0	18.0	11.0 max.	0.6	0.0
					7.7		9.5								
Tolerance -	≤ 12	+0.06	±1.0	±0.2	±0.7		-	+1.5	±0.5		±0.2	±0.5		±0.3	±2.0
	>12 ~ 23	-0.05	11.0	10.2	±1.5			-1.0							

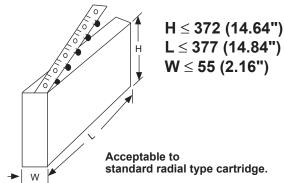
^{*}Lead diameter dependent on capacitor diameter. Contact NIC for details



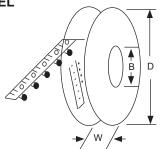








REEL



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.

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.