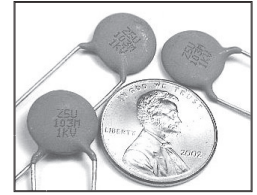


TEMPERATURE COMPENSATING AND TEMPERATURE STABLE TYPES (CLASS I)

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



**RoHS
Compliant**

includes all homogeneous materials

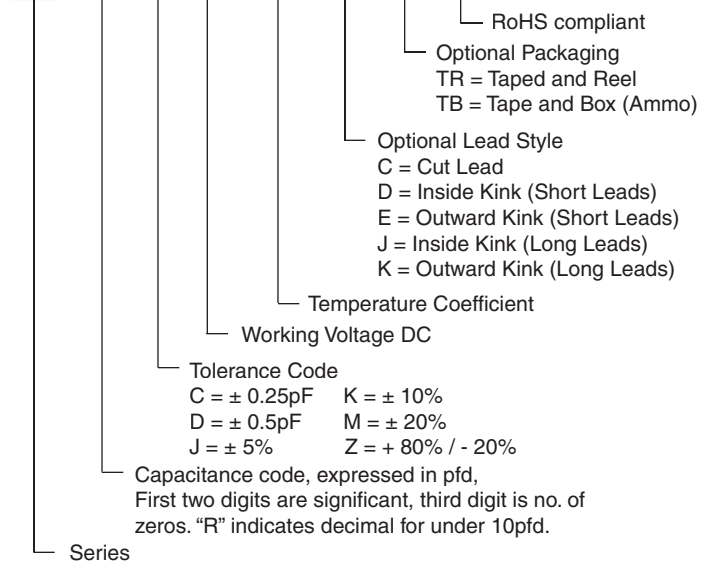
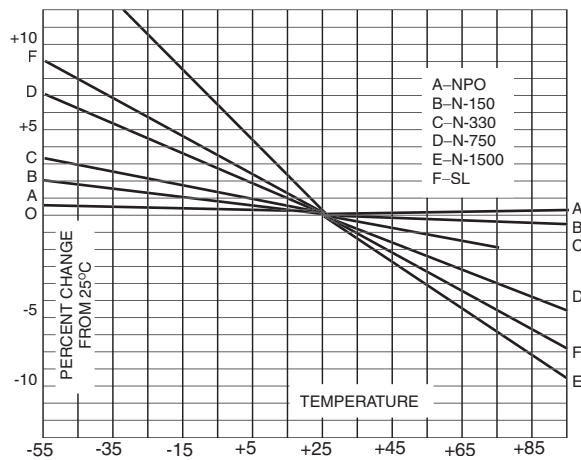
*See Part Number System for Details

SPECIFICATIONS

Temperature Characteristics	NPO	N150	N470	N750	SL	N1500	N3300
Operating Temperature Range	-30° ~ +85° C						
Capacitance Range	0.5~470pF	3~220pF	3~150pF	22~470pF	0.5~1000pF	22~1000pF	47 ~ 1000pF
Standard Tolerance	J=+/-5%	J=+/-5%	J=+/-5%	J=+/-5%	J=+/-5%	J=+/-5%	J=+/-5%
Capacitance Change Over Temperature Range	±1%	-1~ +2%	-2~ +3.5%	-5~ +7.5%	-6~ +9%	-10~ +20%	-13~ +12%
Q Factor (Min. 1MHz)	1000(C≥30pfd) 400 + 20C (C<30pfd)	1000(C≥30pfd) 400 + 20C (C<30pfd)	1000(C≥30pfd) 400 + 20C (C<30pfd)	1000(C≥30pfd) 400 + 20C (C<30pfd)	1000(C≥30pfd) 400 + 20C (C<30pfd)	500(C≥30pfd) 200 + 10C (C<30pfd)	500(C≥30pfd) 200 + 10C (C<30pfd)
Insulation Resistance	Minimum 10,000 Megohms						
Temperature Coefficient	0±60PPM	N150±60PPM	N470±60PPM	N750±120PPM	N330±500PPM	N1500±250PPM	N3300±500PPM
Working Voltage Range	50 Vdc ~ 1K Vdc						
Dielectric Withstanding Voltage (Test Voltage)	2.5 Times Rated Voltage For Not Less Than 1 Second, 50mA maximum						
Load Life	Cap. Change	±3%	±5%	±8%	±15%	±30%	±50%
Test 85°C	Q Factor (Min)	Shall Conform To Initial Measurements Above					
1000 Hrs	I.R. (Min)	10,000 Megohms					
Test Conditions	< 1,000 pF; 1Mhz, 1.2Vrms Max. >1,000 pF; 1Khz, 1.2Vrms Max.						

PART NUMBER SYSTEM

NCD 101 J 500 NPO J TR E

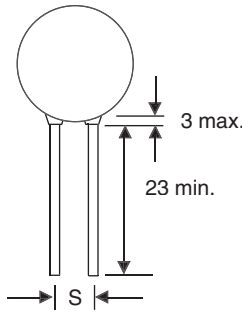


Lead Spacing (mm) - S				
Body Diameter	Standard Bulk	Standard T & R	Optional Bulk	Optional T & R
5 ~ 11	6.35 ±0.8	5.0 ±0.8	5.0 ±0.8	2.5 ±0.8
≥ 12	6.35 ±0.8	5.0 ±0.8	7.5 ±0.8	7.5 ±0.8
			10.0 ±0.8	10.0 ±0.8

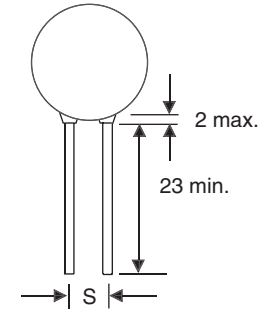
LEAD DIAMETER
0.6MM IS STANDARD

BODY THICKNESS
2 ~ 4MM DEPENDENT ON CV

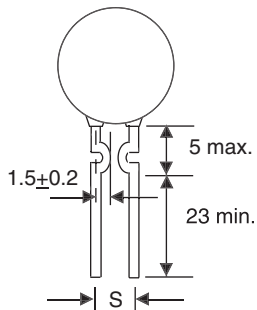
Standard
500Vdc & Up



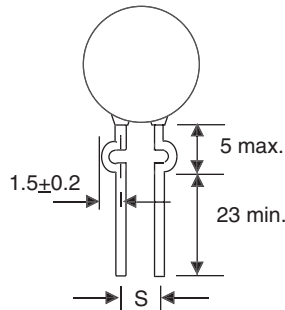
Low Voltage
100Vdc & Below



J Style

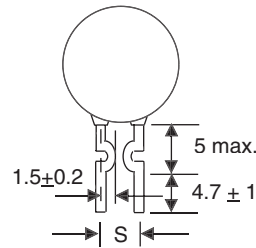


K Style

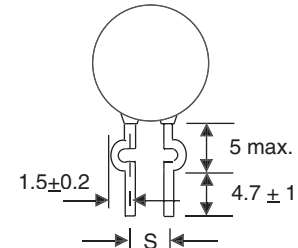


(BULK AND TAPED STYLES)

D Style



E Style



(BULK ONLY)

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

Cap. (pF)	NPO			N150 ~ N470			N750			SL			N1500			N3300		
	50V 100V	500V	1KV	50V 100V	500V	1KV	50V 100V	500V	1KV	50V 100V	500V	1KV	50V 100V	500V	1KV	50V 100V	500V	1KV
0.5 ~ 18	6	6	6	6	6	7				6	6	6						
20	6	6	6	6	7	8	6	6	6	6	6	6						
22	6	6	6	6	7	8	6	6	6	6	6	6	6	6	6			
27	6	6	6	7	8	9	6	6	6	6	6	6	6	6	6			
33	6	6	7	7	8	9	6	6	7	6	6	6	6	6	6			
39	6	7	7	8	8	10	6	6	7	6	6	6	6	6	6			
47	6	7	8	8	8	10	6	7	8	6	6	6	6	6	6		6	
56	7	7	8	8	10	12	7	7	8	6	6	6	6	6	6		6	6
68	7	7	9	8	12	14	7	7	9	6	6	6	6	6	6		6	6
75	7	7	9	10	12	14	7	7	9	6	6	7	6	6	7		6	6
82	7	7	9	10	14		7	7	9	6	6	7	6	6	7	6	6	6
100	8	8	10	10	14		8	8	10	6	6	7	6	7	7	6	6	6
120	8	8	10	10	14		8	8	10	6	6	7	6	7	7	6	6	6
150	9	9	12	12/14			9	9	12	6	7	8	6	8	8	6	6	7
180	9	9	14	14			9	9	14	6	7	8	6	8	8	6	7	7
220	10	10	16	14			10	10	16	7	8	9	7	9	9	7	7	7
270	12	12	16				12	12	16	8	9	10	8	9	10	7	7	7
330	14	14	18				14	14	18	8	10	12	8	10	12	7	7	8
470	16	16	20				16	16	20	9	12	14	9	12	14	7	8	9
560										10	12	14	10	14	14	8	9	11
680										10	14	16	10	14	16	8	10	11
750										12	16	16	12	16	16	8	10	11
820										12	16	16	12	16	16	8	10	11
1000										14	16	18	14	16	18	10	12	13

NIC RESERVES THE RIGHT TO REQUEST MINIMUM QUANTITIES ON CERTAIN VALUES



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Ceramic Disc Capacitors](#) category:

Click to view products by [NIC](#) manufacturer:

Other Similar products are found below :

[009377XM](#) [5AS560JCFCA](#) [5AU100JCECA](#) [5AU470JCJCA](#) [DEF2CLH020CA3B](#) [HSE102MAQBF0KR](#) [432202101621](#) [432202282431](#)
[DEF2CLH030CJ3B](#) [W1X223MCVCF0KR](#) [564RC0GBA302EJ470K](#) [5AS270JCDCA](#) [5AS330JCDCA](#) [5AU330JCGCA](#)
[DE1E3KX222MJ4BN01F](#) [440LT68AP-R](#) [JN222MQ47FAAAAKPLP](#) [H8000090-245](#) [H8000090-225RY](#) [H8000090-309RY](#) [H8000090-](#)
[291RY](#) [F471K39S3NR63K7R](#) [DEF2CLH040CN3A](#) [DEF2CLH080DA3B](#) [564R3DF0T22](#) [CC2150KY5P1KVB5LS-LF](#)
[CC2180KY5P1KVB5LS-LF](#) [CC2470KY5P1KVB5LS-LF](#) [CC2820KY5P1KVB5LS-LF](#) [0838-040-X7R0-220K](#) [JN102MQ35FAAAAKPLP](#)
[0841-040-X5U0-103M](#) [CCH-6K8-5/1000V](#) [140-50N2-101J-TB-RC](#) [ECK-DGL102ME](#) [562R5GAD47RR](#) [S103K75Y5PN8BT0R](#)
[615R100GAD10](#) [615R150GAD10](#) [NCD100K1KVSLF](#) [NCD682M1KVZ5UF](#) [CCK-100N](#) [CCK-100P](#) [CCK-22N](#) [CCK-2N2](#) [CCK-47N](#) [CCK-](#)
[47P](#) [CCK-4N7](#) [CCK-4P7](#) [CK45-B3FD681KYNNA](#)