



High Voltage Class I Ceramic Disc Capacitors

CDR Series

FEATURES

- Linear temperature coefficient of capacitance
- High stability of capacitance
- Low loss across a wide frequency range
- RoHS Compliant



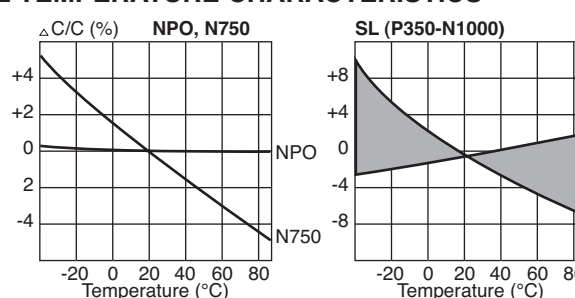
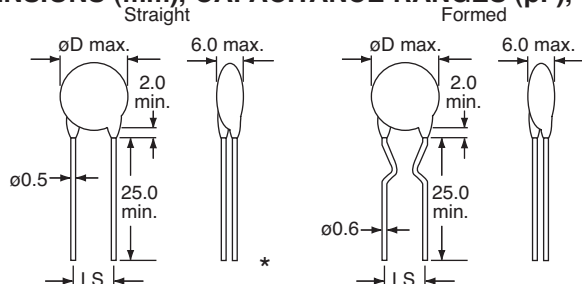
CHARACTERISTICS

Item	Characteristics
Operating Temperature Range	-25°C ~ +85°C
Capacitance Tolerance (min.)	Within the tolerance at 1MHz, 1~3Vrms, 25°C
Working Voltage (WVDC)	1KWV, 2KWV, 3KWV, or 6KWV
Insulation Resistance	10,000MΩ min. or 200MΩ x μF whichever is the smaller
Test Voltage	3 x WVDC
Life Test	At 2 x WVDC @85°C for 1000 hours @ 85°C, capacitors shall meet the following: the capacitance change for ≤30pF will be ≤±5% or ≤0.5pF; for >30pF the capacitance change will be ≤±5%. For ≤30pF Q ≥ 27.5 = 5/3C; for >30pF Q ≥ 350
Humidity Test	At exposure in the ambient temperature of 40°C, and at 95% RH for 500 hours the capacitors shall meet the following after 24 hours exposure at room temperature: the capacitance change for ≤30pF will be ≤±5% or ≤0.5pF; for >30pF the capacitance change will be ≤±5%. For ≤30pF Q ≥ 27.5 = 5/3C; for >30pF Q ≥ 350

PART NUMBERING SYSTEM

1	4	0	1	0	2	N	9	-	1	0	1	K	-	R	C
Series			Voltage			Temp. Coeff.	Lead Space		Capacitance (pF)			Tolerance	Suffix (RoHS Compliant)		
Voltage	Code		Temp. Coeff.	Code		Lead Space	Code		Tolerance	Code		Tolerance	Code		
1KV	102		NPO	N		6.35mm	6		±0.25pF	C		±20%	M		
2KV	202		SL	S		9.52mm	9		±5%	J		±0.5pF	D		
3KV	302								±10%	K		+80/-20%	Z		
6KV	602														

DIMENSIONS (mm), CAPACITANCE RANGES (pF), TYPICAL TEMPERATURE CHARACTERISTICS



* lead diameter is ø0.8mm max. for 6 KV

Dimensions		Working Voltage (WV); Temperature Coefficient; Capacitance Range (pF)							
		1KV		2KV		3KV		6KV	
øD (mm)	LS (mm)	NPO	SL	NPO	SL	NPO	SL	NPO	SL
6.5	6.35	1 ~ 25	30 ~ 80	---	---	---	---	---	---
7	6.35	---	---	1 ~ 10	20 ~ 33	---	---	---	---
8.5	6.35	26 ~ 40	81 ~ 40	11 ~ 18	34 ~ 68	---	---	---	10 ~ 22
9.5	6.35	41 ~ 70	141 ~ 240	---	---	---	---	10	33
10	6.35	---	---	---	69 ~ 100	1 ~ 16	15 ~ 56	12 ~ 15	47 ~ 56
11	6.35	---	---	19 ~ 39	110 ~ 140	18 ~ 24	62 ~ 82	---	---
12	9.52	---	---	---	---	---	---	18 ~ 22	68 ~ 100
13	9.52	71 ~ 120	241 ~ 400	40 ~ 62	150 ~ 230	---	---	---	---
14	9.52	---	---	---	---	---	---	33	120
16	9.52	---	---	63 ~ 82	240 ~ 310	27 ~ 51	91 ~ 160	47 ~ 56	150 ~ 180
18	9.52	---	---	---	---	---	---	68 ~ 82	220
20	9.52	---	---	---	---	---	---	100	330



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XC-600142

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