



High Voltage Class II Ceramic Disc Capacitors

CDR Series



FEATURES

- Large capacitance in small sizes
- Non linear temperature coefficient of capacitance.
- 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, 6KWV
Insulation Resistance	10,000MΩ min. or 200MΩμF, whichever is less
Test Voltage	2.5 x WVDC
Life Test	At 2 x WVDC @85°C for 1000 hours @ 85°C, capacitors shall meet the following: the capacitance change for Y5P will be ±10%; Z5U will be ±20%; Z5V will be ±30%; the dissipation factor for Y5P and Z5U will be 50x10 ⁻³ ; Z5V will be 75x10 ⁻³ .
Humidity Test	At exposure in the ambient temperature of 40°C, and at 95% RH for 500 hours: the capacitance change for Y5P will be ±10%; Z5U will be ±20%; Z5V will be ±30%; the dissipation factor for Y5P and Z5U will be 50x10 ⁻³ ; Z5V will be 75x10 ⁻³ .

PART NUMBERING SYSTEM

1 4 0	1 0 2	P	6	-	1 0 1	K	-	R C
Series	Voltage	Temp. Coeff.	Lead Space		Capacitance (pF)	Tolerance		Suffix (RoHS Compliant)

Voltage	Code
1K	102
2K	202
3K	302
6K	602

Temp. Coeff.	Code
Y5P	P
Z5U	Z
Z5V	Q

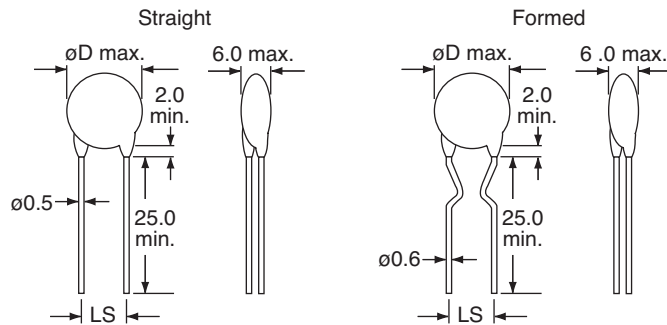
Lead Space	Code
6.35mm	6
9.52mm	9

Tolerance	Code
±0.25pF	C
±5%	J
±10%	K
±20%	M
±0.5pF	D
+80/-20%	Z

TEMPERATURE COEFFICIENT CHARACTERISTICS

Temperature Coefficient	Y5P	Z5U	Z5V
Operating Temp. Range	-25°C ~ +85°C	+10°C ~ +85°C	+10°C ~ +85°C
Capacitance Change	±10%	+20, -55%	+30, -80°

■ DIMENSIONS (mm), CAPACITANCE RANGES (pF)



Dim. (mm)		Working Voltage (WV); Temperature Coefficient; Capacitance Range (pF)											
		1K			2K			3K			6K		
øD	LS	Y5P	Z5U	Z5V	Y5P	Z5U	Z5V	Y5P	Z5U	Z5V	Y5P	Z5U	Z5V
6.5	6.35	300~1000	1000~2000	2000	---	---	---	---	---	---	---	---	---
7	6.35	---	---	---	100~680	---	1000	100~300	---	---	---	---	---
8	6.35	---	---	---	---	---	---	360~470	1000	---	---	---	---
8.5	6.35	1200~1500	5000	5000	820~1000	10000	1200~1800	---	---	---	---	---	---
9	6.35	---	---	---	---	---	---	560~680	---	---	---	---	1000
9.5	6.35	2000~2200	---	---	---	---	---	---	---	---	---	---	---
10	6.35	---	---	---	1200~1500	---	2200~3300	820~1000	---	---	---	1000	1200~1500
11	6.35	2700~3300	---	10000	---	1200~2200	3600~4700	---	---	2200~3300	---	---	---
12	6.35	---	---	---	1800~2200	---	---	1200~1500	1200~2200	3600~3900	1000	1200~1500	1800~3300
13	6.35	---	10000	---	---	2700~3300	---	---	---	---	---	---	---
14	9.52	3900	---	---	---	---	---	1800~2200	2700~3600	---	---	1800~2200	---
15	9.52	5000	---	20000	3900~4700	3900~4700	---	---	---	4700~5600	---	---	---
16	9.52	---	---	---	---	---	10000	2700~3300	3900~4700	---	1200~1500	3300	4700~5600
17	9.52	---	20000	---	---	---	---	---	---	---	---	---	---
18	9.52	---	---	---	---	10000	---	---	---	---	1800~2200	4700	6800
19	9.52	10000	---	---	---	---	---	---	---	---	---	---	---
20	9.52	---	---	---	---	---	---	---	10000	---	---	5600	8200
22	9.52	---	---	---	---	---	---	---	---	---	3300	6800	---

■ TYPICAL TEMPERATURE CHARACTERISTICS

