

CERAMIC DISC CAPACITORS

TYPE: CLASS I (50V~1KV DC)

TEMPERATURE COMPENSATING (T.C.)

FEATURES:

- Linear temperature coefficient of capacitance.
- High stability of capacitance.
- Low loss at wide range of frequency.
- All capacitors are accord with RoHS standards.

SPECIFICATIONS:

Temperature Characteristics	NPO	N750	SL
Operating Temperature Range	-55°C ~ + 125°C		
Capacitance Range	0.5pF~1000pF @1± 0.1 MHz, 1.0~3.0 Vrms,± 25°C		
Q Factor	C _i ∅ 30pF= =>Q _i ∩400+20C, C _i ∩ 30pF= =>Q _i ∩1000		
Test Voltage(50mA Max.)	W.V<1KV = = >2.5Time of Rated Voltage for 1~5sec W.V<1KV = = >2.0Time of Rated Voltage for 1~5sec		
Insulation Resistances	10,000M£[min. measured@W.V.DC,but not exceeding 500VDC		
Temperature Coefficient(ppm/ °C) (-25 °C~+85 °C)	0± 60	-750± 120	350~- 1000

Standard Products and Maximum Diameter(mm)

Cap. (pF)	NPO			N750			SL		
	50/100V	500V	1KV	50/100V	500V	1KV	50/100V	500V	1KV
0.5~12	5.5	5.5	6						
15	5.5	5.5	6.5	5.5	6.5	6.5	5.5	5.5	5.5
18	5.5	5.5	6.5	5.5	6.5	6.5	5.5	5.5	5.5
20	5.5	5.5	6.5	5.5	6.5	6.5	5.5	5.5	5.5
22	5.5	5.5	6.5	5.5	6.5	6.5	5.5	5.5	5.5
27	5.5	5.5	6.5	5.5	6.5	6.5	5.5	5.5	5.5
33	5.5	6.5	6.5	5.5	6.5	7.5	5.5	5.5	5.5
39	5.5	6.5	6.5	5.5	6.5	7.5	5.5	5.5	5.5
47	5.5	6.5	7.5	5.5	6.5	8.5	5.5	5.5	5.5
56	5.5	7.5	7.5	5.5	6.5	8.5	5.5	5.5	5.5
68	5.5	7.5	7.5	5.5	7.5	9.5	5.5	5.5	5.5
82	5.5	8.5	8.5	5.5	7.5	9.5	5.5	6.5	6.5
100	6.5	8.5	9.5	7.5	8.5	10.5	5.5	6.5	6.5
120	7.5	8.5	9.5	7.5	8.5	10.5	5.5	7.5	7.5
150	8.5	9	10.5	8.5	9.5	12.5	5.5	7.5	7.5
180	8.5	9	11.5	8.5	9.5	13.5	6.5	7.5	8.5
220	9.5	10	12.5	9.5	10.5	14.5	6.5	8.5	8.5
270	10.5	12		10.5	12.5		7.5	8.5	9.5
330	11.5	14		15	14.5		7.5	9.5	10.5
470	14.5			15	15.5		8.5	12.5	12.5
560							9.5	12.5	14.5
680							9.5		
820							10.5		
1000							10.5		
Thickness	4.0mm Max.			4.0mm Max.			4.0mm Max.		

HOW TO ORDER(16V~1KV)

PART NUMBER CODE

<u>I</u>	<u>CH</u>	<u>1H</u>	<u>101</u>	<u>J</u>	<u>06</u>	<u>A</u>	<u>5</u>	<u>1</u>	<u>6</u>	<u>E</u>	<u>N</u>
1	2	3	4	5	6	7	8	9	10	11	12

1. TYPE

T: Temperature Compensation (Class 1)

H: High Dielectric Constant (Class 2)

S: Semi Conductive (Class 3)

2. Temperature Characteristics

* Temperature Compensating type

Code	CH(NPO)	UJ	SL
Temp. coeff. (ppm/°C)	0± 60	-750± 120	+350~ -1000

* High dielectric constant type

Code	B(Y5P)	R(X7P)	E(Z5U)	F(Z5V)
Cap. Change (%)	±10	±15	+22 -56	+22 -82

* Semi conductive type

Code	B(Y5P)	E(Y5U)	F(Y5V)
Change (%)	±15	+22 -56	+22 -82

3. Rated Voltage

Code	1C	1E	1H	2A	2E	2H	3A
Rated Voltage	16 VDC	25 VDC	50 VDC	100 VDC	250 VDC	500 VDC	1K VDC

4. Capacitance

Code	Capacitance(pF)
010	1
1R5	1.5
100	10
101	100
102	1000
473	47000
104	100000
224	220000

5. Capacitance Tolerance

Code	Cap. Tol.
C	±0.25 pF
D	±0.5 pF
J	±5%
K	±10%
M	±20%
S	+50%~-20%
Z	+80%~-20%
P	+100%~-0%

6. Body Diameter (mm)

Code	05	06	07	08	09	10	11	12	14	16	18	20
D max.	5.5	6.5	7.5	8.5	9.5	10.5	11.5	12.5	14.5	16.5	18.5	20.5

7. Lead Shape Code

Code	Packing Method	Lead Configuration
A	Taping Box	KINK
B		STRAIGHT
H	Taping Reel	KINK
R		STARAIGHT
S	Bulk	SHORT STRAIGHT
L		LONG STRAIGHT
K		INSIDE KINK
D		OUTSIDE KINK
Y		VERTICAL CRIMP

8. Lead Spacing Code (F)

Code	Dimension(mm)
2	12.5±1.0
5	5.0±1.0
6	6.35±1.0
7	7.50±1.0
0	10.0±1.0
1	12.5±1.0

10. Lead Diameter Code (d)

Code	Diameter(mm)
5	0.5 ± 0.05
6	0.6+0.06/-0.05

9. Lead Length Code(L)

Code	Dimension(mm)
1	15 min
2	23 min
3	3.5± 1.0
5	5.0± 1.0
0	10.0±1.0

11. Code: E Epoxy Coating
 Nil Durez Coating

12. Code: N RoHS Type