Data Sheet

Customer:

Product: Ceramic Disc Capacitor – Low Dissipation Factor

Type : Y

Issued Date : 02-Feb.-2023

Edition: Ver. 2

Record of change

Date	Ver.	Description	Page
30-Dec.-2016	1		
02-Feb.-2023	2	Revised Part No.	

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HITANO
ENTERPRISE CORP.

CERAMIC DISC CAPACITORS (1KV-3KV)
LOW DISSIPATION FACTOR TYPE Y

FEATURES

- Low dissipation factor.
- Non linear temperature coefficient of capacitance

Part No. Designation

Example	Y	R	2K0	222	K	-	L	7	1	6	B	D	14.5
	(1)	(2)	(3)	(4)	(5)		(6)	(7)	(8)	(9)	(10)	(11)	(12)

1.Low D.F — Type'Y'

2.Temperature Coefficient (Ref. Fig 2)

Code	Temp. Range	Cap. Change	EIA Code
P	-25℃~+85℃	±10%	Y5P
R	-25℃~+125℃	±15% (-25℃ to +85℃) +15 ～-30%(+85℃ to +125℃)	Y5R

3.Rated Voltage (D.C.)

Code	Voltage
1K0	1000V
2K0	2000V
3K0	3000V

4.Rated Capacitance

Code	Cap. (PF)	Code	Cap. (PF)
101	100PF	821	820 PF
121	120PF	102	1,000 PF
151	150PF	152	1,500 PF
181	180PF	222	2,200 PF
221	220PF	272	2,700 PF
271	270PF	332	3,300 PF
331	330PF	392	3,900 PF
391	390PF	472	4,700 PF
471	470PF		
561	560PF		
681	680PF		

5.Tolerance On Rated Capacitance

Code	Tolerance	Rated T.C.
K	±10%	P,R

6.Lead Shape. (Ref. Fig. 3.)

Code	Type	
K	Bulk	Short Kink
S		Short Straight
L		Long Straight
A	Taping	Inside Kink
B		Straight
D		Vertical Kink

7.Lead Spacing. (F)

Code	Dimension. (mm)		
	K	S	L
5	5.0±0.8	5.0±0.8	5.0±0.8
7	---	7.5±0.8	7.5±0.8
0	10.0±1.0	10.0±1.0	10.0±1.0

8.Lead Length. (L)

Code	Dimension (mm)		
	K	S	L
5	5.0±0.8	5.0±0.8	
6	6.0±0.8	6.0±0.8	
0	10.0±0.8	10.0±0.8	
1	---	---	20min

9.Lead Wire. (d)

Code	Dia(ϕ mm)	Rated Voltage (D.C.)
6	0.6±0.1	1KV~3KV

10.Package

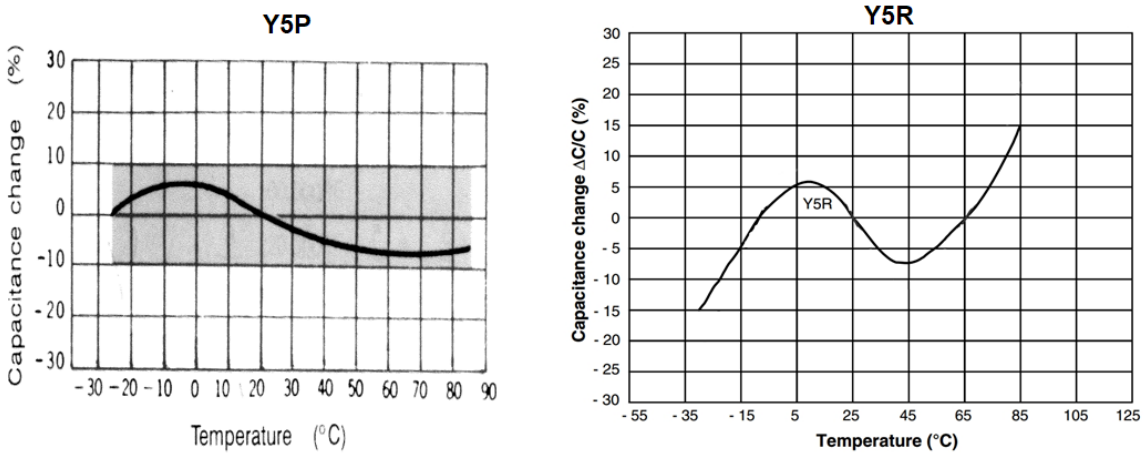
Code	Package	Q'ty
B	Bulk	1000pcs
A	Ammo Pack	2000pcs

11.Extra Diameter Code : D

12.Diameter in mm

Code	Dia (ø mm)
9	9
14.5	14.5

Fig. 2 (T.C. %)



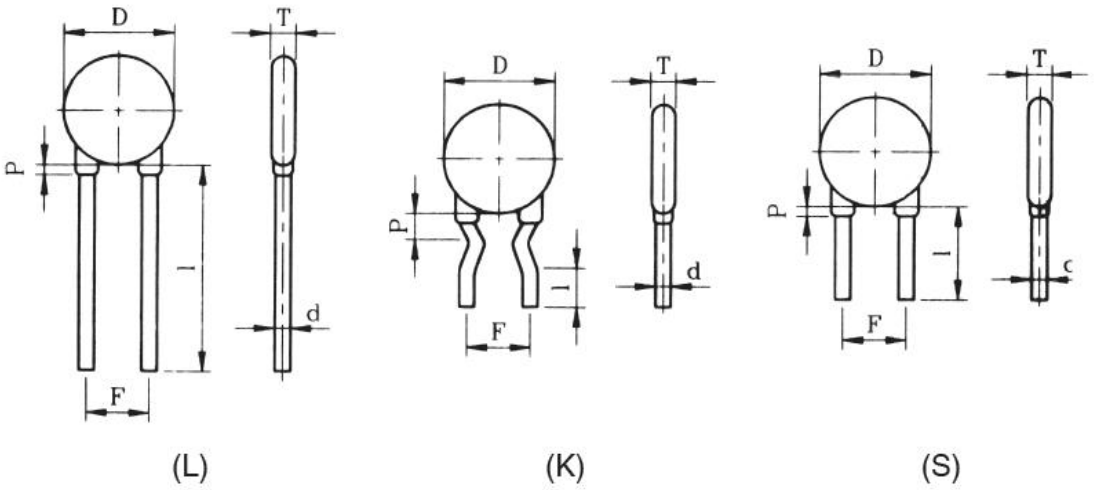
Dimension & Capacitance Range

Dimension (mm)				Capacitance Range (pF)					
Dia. (D) max	Lead Spacing (F)			1000V		2000V		3000V	
	K	S	L	P	R	P	R	P	R
6.5	5.0±0.8 to 10.0±1.0	5.0±0.8 to 10.0±1.0	5.0±0.8 to 10.0±1.0	100 – 560	100 – 470	100 – 470	100 – 270	100 – 390	100 – 220
7.5				680 – 1000	560 – 680	560 – 680	330 – 470	470 – 560	330
8.5				1500 – 1800	820 – 1000	820 – 1000	560 – 680	680	390
9.5				2200	-	1500	820	820 – 1000	470 – 560
10.5				3300 – 3900	1500	1800	1000	-	680
11.5				4700	2200	2200	1200	1500	820 – 1000
12.5				--	-	2700	1500	-	-
13.5				-	-	3300	1800	2200	-
14.5				-	3300	3900	2200	2700	1500
15.5				-	-	4700	-	3300	-
17.5				-	-	-	3300	4700	2200

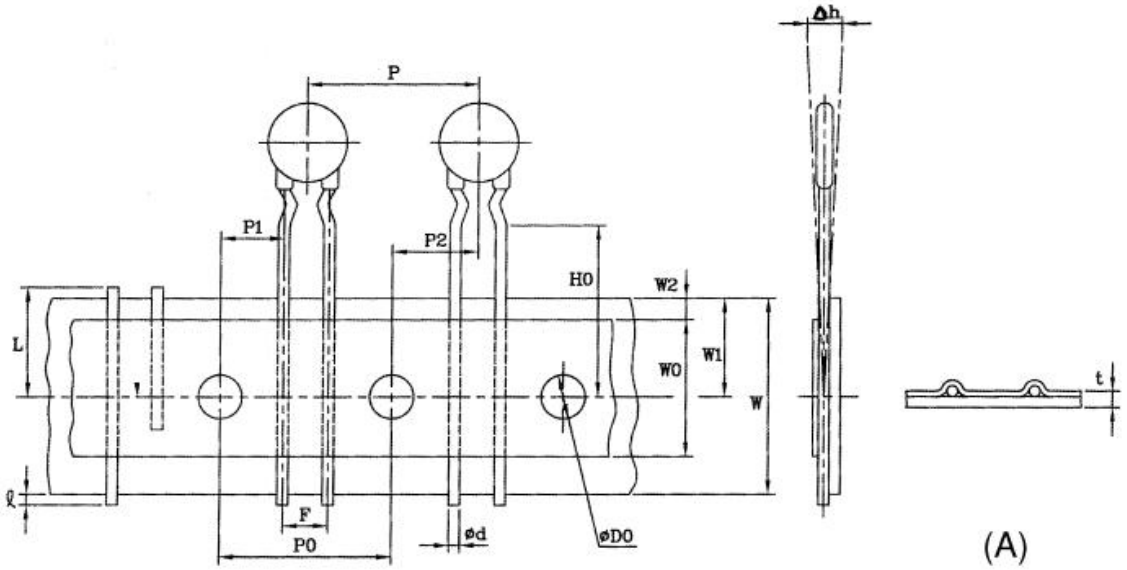
SPECIFICATION & TEST

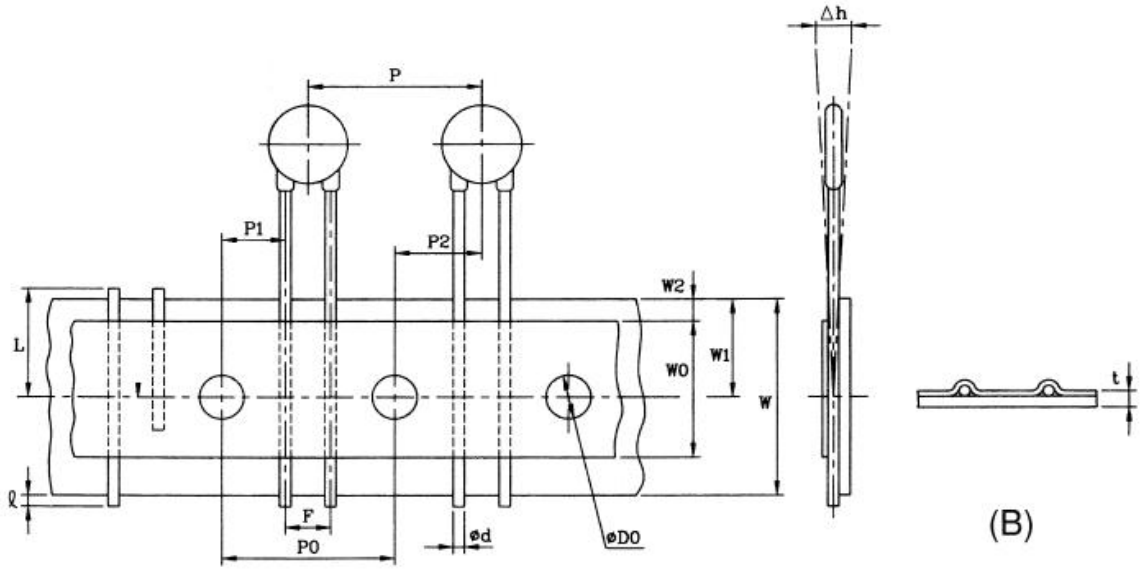
No. Item	Performance	Test Method
1. **Visual & Mechanical**	To meet the specification	The product shall be inspected for visible evidence of defect
2. **Marking**	To be clear and legible	Marking shall be tested with ace ton
3. **Voltage Proof (Between terminal)**	No failure	2.5 times the rated voltage shall be applied for 1 to 5 sec. Charging and discharging current shall be limited to 50mA max
4. **Insulation resistance**	10,000MΩ min	Shall be measured 1 minute after with rated voltage
5. **Capacitance**	To be within the specified tolerance	Test frequency : 1KHz ±200Hz Test voltage shall not exceed 1Vrms at 25±2℃
6. **Dissipation Factor (Tan δ) (%)**	Characteristic P : 0.5% max R : 0.2% max	Same condition as above (Item 5)

Lead Shape (Fig. 3)



Taping Specification





Symbol	P	P_0	P_1	P_2	ϕ d	F	△h	W	W_0	W_1	W_2	D_0	t	L	H	H_0
Dimension	12.7	12.7	3.85	6.35	0.6	5.08 6.35 7.62	0	18	12.5	9	3	4	0.7	11	20.0 23.0	16.0 18.0
Tolerance	±1.0	±0.3	±0.7	±1.0	±0.05	+0.8 -0.2	±2	±0.5	Min	+0.75 -0.5	Max	±0.3	±0.2	Max	+1.5 -1.0	±0.5