



Ceramic Disc Capacitors - (T.C.) EIA RS198 CLASS I, JIS C6423 TYPET

Features

- Linear temperature coefficient of capacitance.
- High stability of capacitance
- Low loss at wide range of frequency

Part No. Designation

Example	T	CH	1H	101	J	-	K	5	5	5	B
	(1)	(2)	(3)	(4)	(5)		(6)	(7)	(8)	(9)	(10)
	Type	TC	Voltage	Capacitance	Tolerance		Lead Shape	Lead Spacing	Lead Length	Lead Wire	Package

1. Class 1-Type " T "

2. Temperature Coefficient (Ref. Fig 1) #Page 2

Code	PPM°C	T.C.	EIA Code
CH	0±60	NP0	COH
SL	+350~-1,000	P350~N1000	S2L

3. Rated Voltage (D.C.)

Code	Voltage	Code	Voltage
1H	50V	2H	500V
1J	63V	2J	630V
2A	100V	3A	1KV

4. Rated Capacitance

Code	Cap. (PF)	Code	Cap. (PF)
010	1PF	390	39PF
1R5	1.5PF	470	47PF
2R2	2.2PF	560	56PF
3R3	3.3PF	680	68PF
3R9	3.9PF	820	82PF
4R7	4.7PF	101	100PF
5R6	5.6PF	121	120PF
6R8	6.8PF	151	150PF
8R2	8.2PF	181	180PF
100	10PF	221	220PF
120	12PF	271	270PF
150	15PF	331	330PF
180	18PF	391	390PF
220	22PF	471	470PF
270	27PF	561	560PF
330	33PF	681	680PF

5. Tolerance On Rated Capacitance

Code	Tolerance	Rated Cap. (PF)
C	±0.25PF	Under 10PF
D	±0.5PF	
J	±5%	From 10PF to 680PF
K	±10%	

6. Lead Shape. (Ref. Fig. 3.) #Page 10, 11

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

7. Lead Spacing. (F)

Code	Dimension. (mm)		
	K	S	L
2	---	2.54±0.8	2.54±0.8
5	5.08±0.8	5.08±0.8	5.08±0.8
6	---	6.35±0.8	6.35±0.8
7	---	7.52±0.8	7.52±0.8
0	9.53±0.8	9.53±0.8	9.53±0.8

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	---	---	25min

9. Lead Wire. (d)

Code	Dia (φ mm)	Rated Voltage (D.C.)
5	0.5±0.05	50V~500V
6	0.6±0.05	1KV

* Taping type lead dia. 0.6mm only.

10. Package

Code	Package	Q'ty
B	Bulk	1000pcs
A	Ammo Pack	2000pcs
R	Tape & Reel	2500pcs

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Fig. 1A (T. C. PPM/°C) NPO

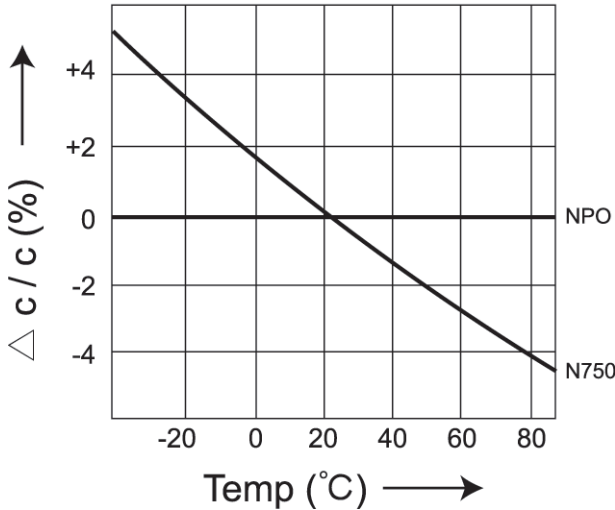
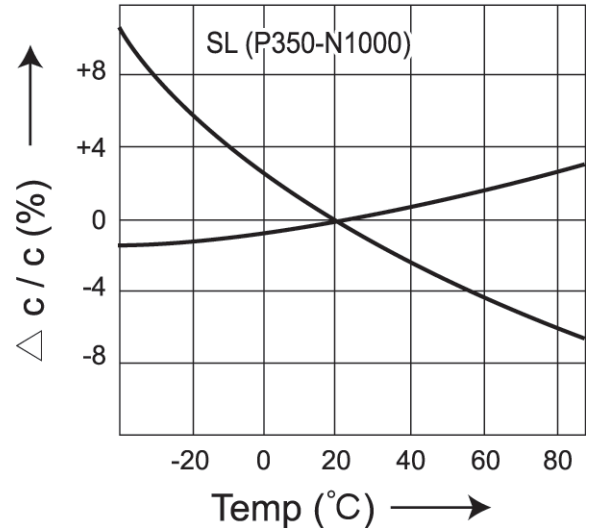


Fig. 1B SL (P350-N1000)



Dimension & Capacitance Range

Dimension (mm)				Capacitance Range (pF)					
Dia.(D) max	Lead Spacing (F)			50 ~ 63V		500 ~ 630V		1KV	
	K	S	L	CH	SL	CH	SL	CH	SL
5.5				1 - 47	1 - 150	1 - 27	1 - 68	1 - 27	1 - 68
6.5				56 - 82	151 - 220	28 - 39	69 - 100	28 - 39	69 - 100
7.5	5.0±0.8	2.5±0.8	2.5±0.8	100 - 120	221 - 330	40 - 68	101 - 180	40 - 68	101 - 150
8.5	to	to	to	121 - 150	331 - 470	69 - 82	181 - 220	69 - 82	151 - 270
9.5	10.0±0.8	10.0±0.8	10.0±0.8	151 - 200	471 - 680	83 - 120	221 - 330	83 - 120	271 - 300
10.5				201 - 270	681 - 820	---	331 - 470	---	301 - 390
12.5				271 - 330	---	---	---	---	391 - 470

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 acetone.
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	10,000MΩmin	Shall be measured 1 minute after with rated voltage
5. Capacitance	To be within the specified tolerance	Test frequency :1MHz ±100Hz Test voltage shall not exceed 5Vrms at 25±2°C
6. Q Value	C≤30PF Q =400+20C. C>30PF Q>1000.	Same condition as above (Item 5)
7. Temperature Coefficient	To be within the specification	T.C. shall be calculated by the following formula: $PPM/°C = [C(t1) - C(t2) / C(t1)(t2 - t1)] \times 10^6$ Ct2 = capacitance at t2 Ct1 = capacitance at t1 T2 = 85 ± 3°C T1 = 25 ± 2°C