CERAMIC DISC CAPACITOR

Part Number Description (for order booking)

Material Type (1)	Rated Capacitance (2)	Cap. Tol. (3)	Rated Voltage (4)	T.C. (5)	Disc Size (6)	Lead Spacing (7)	Lead Style & Package (8)

Example: HK 103 Z 50V Z5U D6 F5 TBS

- TBS — Straight Lead Ammo Packaging
- F5 — Lead Spacing = 5mm
- D6 — Disc Dia. = 6mm
- Z5U — Temperature Characteristics
- 50V — 50V DC
- Z — +80% -20%
- 103 — 10,000 pF (0.01 μF)
- HK — Hi-K Type

(1) Material Type:

TC = T.C. Type (Class I), **HK** = Hi-K Type (Class II), **SC** = S.C. Type (Class III)

(2) Rated Capacitance in (pF): The first two digits are the significant figures of capacitance and the third digit denotes the number of following zeros.

Code	R47	010	4R7	100	101	102	103	104
pF	0.47	1	4.7	10	100	1,000	10,000	100,000

(3) Capacitance Tolerance:

Code	C	D	J	K	M	R	Z
Tolerance	± 0.25 pF	± 0.5 pF	± 5%	± 10%	± 20%	+50% - 10%	+80%-20%

(4) Rated Voltage: in Volts (V), DC

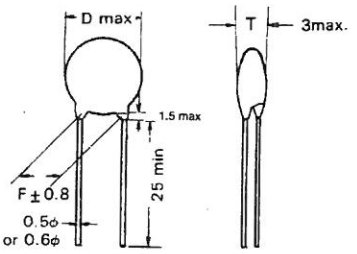
(5) T.C. (Temperature Characteristics): Please refer to page CC-2 for the details

(6) Disc Size (D): Diameter in mm.

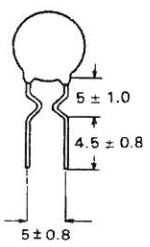
(7) Lead Spacing (F): in mm.

(8) Lead Style: The Code is omitted when the lead is in straight long leads (style 1) and the package is in bulk.

1. Straight Long Leads (Complete Durez coverage Leads)



2. Inside Kink & Cut Leads



Package:

TBS = Straight Lead Ammo packaging

TRS = Straight Lead Reel packaging

TBF = Formed Lead Ammo packaging

TRF = Formed Lead Reel packaging

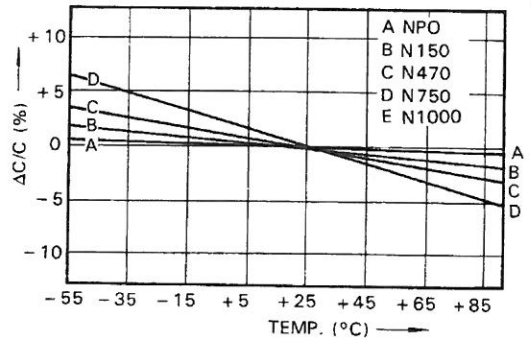
TEMPERATURE COEFFICIENT CHARACTERISTICS:

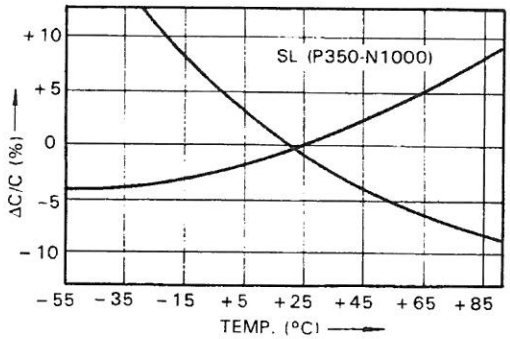
CLASS I · TEMPERATURE COMPENSATING

unit: (ppm/℃)

CAP. \ T.C.	NPO	N150	N470	N750	SL
1 pF ~ 2.7 pF	0± 250	- 150± 250	- 470± 250	- 750± 250	+ 350 ~ - 1000
3 pF ~ 3.9 pF	0± 120	- 150± 120	- 470± 120	- 750± 120	+ 350 ~ - 1000
4 pF and over	0± 60	- 150± 60	- 470± 60	- 750± 120	+ 350 ~ - 1000

T.C. CHART:





CLASS II, CLASS III · HIGH DIELECTRIC CONSTANT

Item \ Dielectric Const.	Max. Capacitance Change from 25℃	Applicable Temperature Range	EIA Code
K1000	± 4.7%	- 30℃ ~ + 85℃	Y5E
K3000	± 10%	- 30℃ ~ + 85℃	Y5P
K10000	+ 22% ~ - 56%	+ 10℃ ~ + 85℃	Z5U
K16000	+ 22% ~ - 82%	+ 10℃ ~ + 85℃	Z5V

T.C. CHART: