T.C. TYPE (CLASS I)

The capacitors have characteristics of predictable linear capacitance change versus temperature which are suitable for temperature compensation of resonant circuit, filters, coupling and decoupling in RF circuit where low losses and close capacitance tolerance are required.

SPECIFICATION:

Operation Temperature Range	-25℃ ~ +85℃
Rated Working Voltage (DC)	50V, 63V, 100V
Capacitance	Measured at 25℃, 1MHz, 1V rms. max.
Capacitance Tolerance	1 pF ~ 9 pF: ± 0.25 pF (C) or ± 0.5 pF (D) 10 pF and above: ± 5% (J) or ± 10% (K)
Insulation Resistance	10,000MΩ mim. at working voltage, 60 sec.
Q (Quality Factor)	Measured at 25℃, 1MHz, 1V rms. max. Q=1000 min, if C≧30 pF Q≧ 400+20C, if C＜30 pF (where C = capacitance)
Voltage Proof (Flash Test)	Withstand 250% of rated working voltage with 50mA current, 1.5 sec.
Life Test	200% of rated voltage at 85℃ for 500 hours.
Applicable Standards	EIA RS-198 (CLASS I), JIS C-6422 (TYPE I)

CAPACITANCE RANGE / DIMENSION CHART : W.V.: 50V ~ 100V (DC)

DINMENSION (mm)		TEMPERATURE CHARACTERISTIC (Capacitance in pF)					
D	**F**	**NPO**	**N80**	**N150**	**N220**	**N750**	**SL (GP)**
5	**2.5 or 5.0**	1 - 50	1 - 24	1 - 39	1 - 24	22 - 50	1 - 150
6	**5.0**	50 - 82	25 - 39	47 - 56	25 - 39	56 - 82	100 - 220
7	**5.0**	100 - 120	47 - 56	82 - 100	47 - 56	100 - 120	270 - 330
8	**5.0**	150 - 180	68	120 - 150	68	150 - 180	390 - 470
9	**5.0**	220	82	180 - 220	82	220	560 - 680
10	**5.0**	270	100	--	100	270	820 - 1000