

TC Class I—Temperature Compensation Type

GENERAL SPECIFICATION

Capacitance Range	1pf ~ 1,000pf
Capacitance Tolerance	0.25pf, 0.5pf, 2%*, 5%, 10%
Operating Temperature Range	-25°C ~ 85°C
Rated Working Voltage	50v ~ 6,000v
Q Factor NPO to N1500	C >30pf Q ≥1000 ; C ≤30pf Q ≥400+20°C
Insulation Resistance	10,000MΩ Minimum
Dielectric Strength	2.5 times WVDC
Testing Parameters	≤1,000pf 1MHz ±100KHz ; >1,000pf 1KHz ±100Kz 1.0vrms ± 0.2vrms @ 25°C ±2°C

50V & 100V DC

Ø ±1mm	Temperature Characteristic (pf)							
	NPO*	SL	N75	N150	N220	N330	N470	N750*
4	1-24	1-68	1-12	1-24	1-27	1-27	1-33	1-43
5	25-47	72-100	13-22	25-47	28-47	28-47	34-47	44-82
6	50-100	120-220	24-33	50-100	50-100	50-100	50-100	83-100
8	120-150	250-470	35-68	120-150	120-150	120-150	120-150	120-150
10	180-220	500-620	72-130	180-220	180-220	180-220	180-220	180-250
12	250-300	680-1000	140-180	250-300	250-300	250-300	250-300	270-390

500V DC

Ø ±1mm	Temperature Characteristic (pf)							
	NPO	SL	N75	N150	N220	N330	N470	N750
5	1-22	1-47	1-15	1-22	1-22	1-22	1-22	1-27
6	25-39	50-100	18-22	25-39	25-39	25-39	25-29	30-39
8	47-82	120-180	25-47	47-82	47-82	47-82	47-82	40-82
10	91-120	200-330	50-68	91-120	91-120	91-120	91-120	91-150
12	150-220	350-500	72-120	150-220	150-220	150-220	150-220	180-220

1,000V DC

Ø ±1mm	Temperature Characteristic (pf)						
	NPO	SL	N150	N220	N330	N470	N750
5	1-15	1-47	1-15	1-15	1-15	1-15	1-22
6	18-33	50-100	18-33	18-33	18-33	18-33	24-39
8	36-68	120-180	35-68	35-68	35-68	35-68	40-82
10	72-120	200-330	72-120	72-120	72-120	72-120	91-150
12	150-180	350-500	150-180	150-180	150-180	150-180	180-220

2,000V DC

Ø ±1mm	Temperature Characteristic (pf)	
	NPO	SL
5	1-20	15-56
6	22-30	68-100
7	33-39	120-150
8	47-50	180
9	56-68	200-220
10	75-82	270-300
11	90-100	330
12	110-120	-----
13	150	390

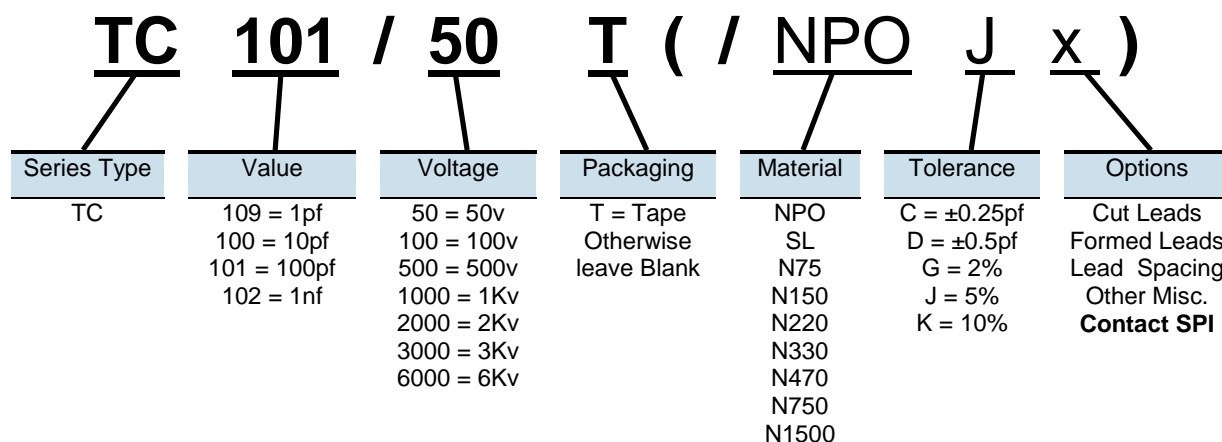
3,000V DC

Ø ±1mm	Temperature Characteristic (pf)	
	NPO	SL
5	1-18	15-47
6	20-30	50-68
7	33-39	82-100
8	47-56	120
9	62-68	150-180
10	72-82	200-220
11	90-100	270
12	110-120	300-330
13	150	-----

6,000V DC

Ø ±1mm	Temperature Characteristic (pf)	
	NPO	SL
6	-----	5-22
7	-----	27-39
8	-----	47-56
9	-----	68
10	-----	82
11	-----	-----
12	-----	100-120
13	-----	-----
14	-----	150

PART NUMBER



NOTES

- Order by using the basic part number (indicated in **bold**) if material and tolerance are not critical or required. Extended part number (indicated in the parenthesis above) is only used if material and tolerance specification are required. Parenthesis are not used in the actual part number.
- 2% tolerance applicable for NPO and N750 products only.