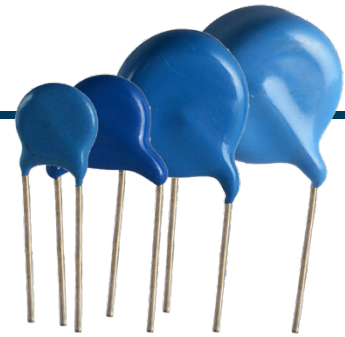




TY1 SERIES (NP0)

3 to 15kV

High Voltage Ceramic Capacitors



Features

- Radial Leaded Package
- NP0 Temperature Characteristics

Specifications

Part Number	C pF	Tolerance ±%	V _{RATE} kV DC	V _{WITHSTAND} kV	D ¹ mm	H ¹ mm	T ¹ mm	L ² mm	Ls ³ mm	d ⁴ mm
TY1NP0150K3KV	15	10	3	6.0	7.0	10.0	4.0	25.0	7.5	0.6
TY1NP0180K3KV	18	10	3	6.0	8.0	11.0	4.0	25.0	7.5	0.6
TY1NP0220K3KV	22	10	3	6.0	8.0	11.0	4.0	25.0	7.5	0.6
TY1NP0270K3KV	27	10	3	6.0	9.0	12.0	4.0	25.0	7.5	0.6
TY1NP0680K3KV	68	10	3	6.0	12.0	15.0	4.0	25.0	7.5	0.6
TY1NP0820K3KV	82	10	3	6.0	13.0	16.0	4.0	25.0	7.5	0.6
TY1NP0101K3KV	100	10	3	6.0	14.0	17.0	4.0	25.0	7.5	0.6
TY1NP0121K3KV	120	10	3	6.0	15.0	18.0	4.0	25.0	7.5	0.6
TY1NP0151K3KV	150	10	3	6.0	16.0	19.0	4.0	25.0	7.5	0.6
TY1NP0181K3KV	180	10	3	6.0	18.0	21.0	4.0	25.0	7.5	0.6
TY1NP0221K3KV	220	10	3	6.0	19.0	22.0	4.5	25.0	7.5	0.7
TY1NP0150K4KV	15	10	4	8.0	8.0	11.0	4.5	25.0	10.0	0.6
TY1NP0180K4KV	18	10	4	8.0	8.0	11.0	4.5	25.0	10.0	0.6
TY1NP0220K4KV	22	10	4	8.0	9.0	12.0	4.5	25.0	10.0	0.6
TY1NP0270K4KV	27	10	4	8.0	9.0	12.0	4.5	25.0	10.0	0.6
TY1NP0680K4KV	68	10	4	8.0	13.0	16.0	4.5	25.0	10.0	0.6
TY1NP0820K4KV	82	10	4	8.0	14.0	17.0	4.5	25.0	10.0	0.6
TY1NP0101K4KV	100	10	4	8.0	15.0	18.0	4.5	25.0	10.0	0.6
TY1NP0121K4KV	120	10	4	8.0	16.0	19.0	4.5	25.0	10.0	0.6
TY1NP0151K4KV	150	10	4	8.0	18.0	21.0	4.5	25.0	10.0	0.6
TY1NP0181K4KV	180	10	4	8.0	20.0	23.0	5.0	25.0	10.0	0.7
TY1NP0221K4KV	220	10	4	8.0	21.0	24.0	5.0	25.0	10.0	0.7
TY1NP0150K5KV	15	10	5	10.0	9.0	12.0	5.0	25.0	10.0	0.6
TY1NP0180K5KV	18	10	5	10.0	10.0	13.0	5.0	25.0	10.0	0.6
TY1NP0220K5KV	22	10	5	10.0	10.0	13.0	5.0	25.0	10.0	0.6
TY1NP0270K5KV	27	10	5	10.0	11.0	14.0	5.0	25.0	10.0	0.6
TY1NP0680K5KV	68	10	5	10.0	16.0	19.0	5.0	25.0	10.0	0.6
TY1NP0820K5KV	82	10	5	10.0	17.0	20.0	5.0	25.0	10.0	0.6
TY1NP0101K5KV	100	10	5	10.0	18.0	21.0	5.0	25.0	10.0	0.6
TY1NP0121K5KV	120	10	5	10.0	19.0	22.0	5.0	25.0	10.0	0.6
TY1NP0151K5KV	150	10	5	10.0	21.0	24.0	5.5	25.0	10.0	0.7
TY1NP0181K5KV	180	10	5	10.0	23.0	27.0	5.5	25.0	10.0	0.7
TY1NP0221K5KV	220	10	5	10.0	24.0	28.0	5.5	25.0	10.0	0.7
TY1NP0100K6KV	10	10	6	12.0	11.0	14.0	6.0	25.0	10.0	0.6
TY1NP0150K6KV	15	10	6	12.0	9.0	12.0	6.0	25.0	10.0	0.6
TY1NP0180K6KV	18	10	6	12.0	10.0	13.0	6.0	25.0	10.0	0.6
TY1NP0220K6KV	22	10	6	12.0	10.0	13.0	6.0	25.0	10.0	0.6
TY1NP0270K6KV	27	10	6	12.0	11.0	14.0	6.0	25.0	10.0	0.6
TY1NP0680K6KV	68	10	6	12.0	16.0	19.0	6.0	25.0	10.0	0.6



TY1 SERIES (NP0)

Part Number	C pF	Tolerance ±%	V _{RATE} kV DC	V _{WITHSTAND} kV	D ¹ mm	H ¹ mm	T ¹ mm	L ² mm	Ls ³ mm	d ⁴ mm
TY1NP0820K6KV	82	10	6	12.0	17.0	20.0	6.0	25.0	10.0	0.6
TY1NP0101K6KV	100	10	6	12.0	19.0	22.0	6.0	25.0	10.0	0.6
TY1NP0121K6KV	120	10	6	12.0	20.0	23.0	6.5	25.0	10.0	0.7
TY1NP0151K6KV	150	10	6	12.0	22.0	25.0	6.5	25.0	10.0	0.7
TY1NP0181K6KV	180	10	6	12.0	24.0	27.0	6.5	25.0	10.0	0.7
TY1NP0221K6KV	220	10	6	12.0	26.0	29.0	6.5	25.0	10.0	0.7
TY1NP0150K8KV	15	10	8	16.0	9.0	12.0	6.5	25.0	10.0	0.6
TY1NP0180K8KV	18	10	8	16.0	10.0	13.0	6.5	25.0	10.0	0.6
TY1NP0220K8KV	22	10	8	16.0	11.0	14.0	6.5	25.0	10.0	0.6
TY1NP0270K8KV	27	10	8	16.0	12.0	15.0	6.5	25.0	10.0	0.6
TY1NP0680K8KV	68	10	8	16.0	17.0	20.0	6.5	25.0	10.0	0.6
TY1NP0820K8KV	82	10	8	16.0	19.0	22.0	6.5	25.0	10.0	0.6
TY1NP0101K8KV	100	10	8	16.0	20.0	23.0	7.0	25.0	10.0	0.7
TY1NP0121K8KV	120	10	8	16.0	22.0	25.0	7.0	25.0	10.0	0.7
TY1NP0151K8KV	150	10	8	16.0	24.0	27.0	7.0	25.0	10.0	0.7
TY1NP0181K8KV	180	10	8	16.0	26.0	29.0	7.0	25.0	10.0	0.7
TY1NP0221K8KV	220	10	8	16.0	28.0	31.0	7.0	25.0	10.0	0.7
TY1NP0150K10KV	15	10	10	20.0	11.0	14.0	7.0	25.0	12.5	0.6
TY1NP0180K10KV	18	10	10	20.0	11.0	14.0	7.0	25.0	12.5	0.6
TY1NP0220K10KV	22	10	10	20.0	12.0	15.0	7.0	25.0	12.5	0.6
TY1NP0270K10KV	27	10	10	20.0	13.0	16.0	7.0	25.0	12.5	0.6
TY1NP0680K10KV	68	10	10	20.0	19.0	22.0	7.0	25.0	12.5	0.6
TY1NP0820K10KV	82	10	10	20.0	20.0	23.0	7.5	25.0	12.5	0.7
TY1NP0101K10KV	100	10	10	20.0	22.0	25.0	7.5	25.0	12.5	0.7
TY1NP0121K10KV	120	10	10	20.0	24.0	28.0	7.5	25.0	12.5	0.7
TY1NP0151K10KV	150	10	10	20.0	26.0	30.0	7.5	25.0	12.5	0.7
TY1NP0150K12KV	15	10	12	24.0	11.0	14.0	7.5	25.0	12.5	0.6
TY1NP0180K12KV	18	10	12	24.0	12.0	15.0	7.5	25.0	12.5	0.6
TY1NP0220K12KV	22	10	12	24.0	13.0	16.0	7.5	25.0	12.5	0.6
TY1NP0270K12KV	27	10	12	24.0	14.0	17.0	7.5	25.0	12.5	0.6
TY1NP0680K12KV	68	10	12	24.0	20.0	23.0	8.0	25.0	12.5	0.7
TY1NP0820K12KV	82	10	12	24.0	22.0	25.0	8.0	25.0	12.5	0.7
TY1NP0101K12KV	100	10	12	24.0	23.0	27.0	8.0	25.0	12.5	0.7
TY1NP0121K12KV	120	10	12	24.0	26.0	30.0	8.0	25.0	12.5	0.7
TY1NP0151K12KV	150	10	12	24.0	28.0	32.0	8.0	25.0	12.5	0.7
TY1NP0150K15KV	15	10	15	30.0	13.0	16.0	8.5	25.0	12.5	0.6
TY1NP0180K15KV	18	10	15	30.0	14.0	17.0	8.5	25.0	12.5	0.6
TY1NP0220K15KV	22	10	15	30.0	15.0	18.0	8.5	25.0	12.5	0.6
TY1NP0270K15KV	27	10	15	30.0	17.0	20.0	8.5	25.0	12.5	0.6
TY1NP0680K15KV	68	10	15	30.0	24.0	28.0	9.0	25.0	12.5	0.7
TY1NP0820K15KV	82	10	15	30.0	27.0	31.0	9.0	25.0	12.5	0.7
TY1NP0101K15KV	100	10	15	30.0	29.0	33.0	9.0	25.0	12.5	0.7
TY1NP0121K15KV	120	10	15	30.0	30.0	34.0	9.0	25.0	12.5	0.7
TY1NP0151K15KV	150	10	15	30.0	32.0	36.0	10.0	25.0	12.5	0.8

¹Maximum dimension.

²Minimum dimension.

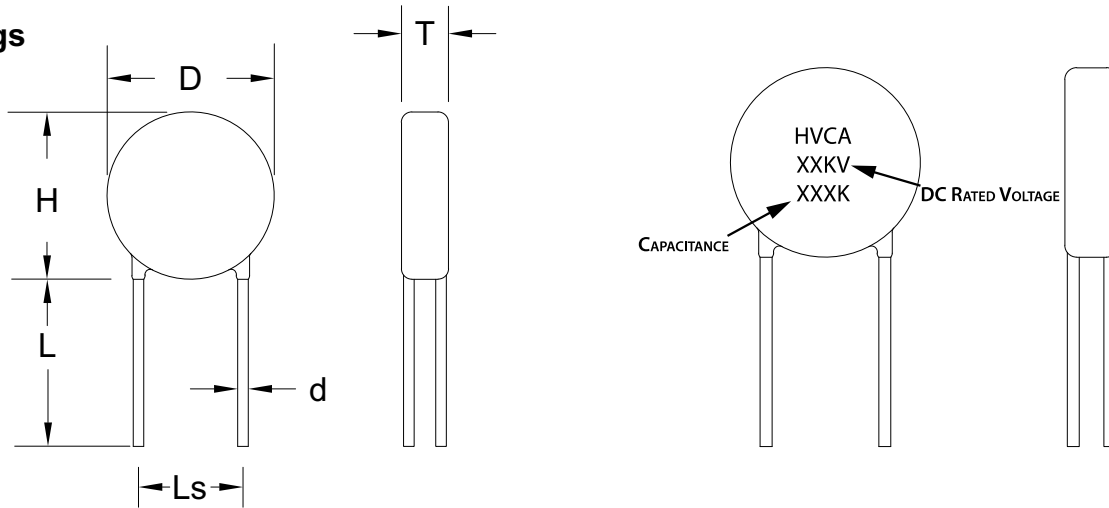
³Ls has a ±1.5mm tolerance.

⁴Typical.

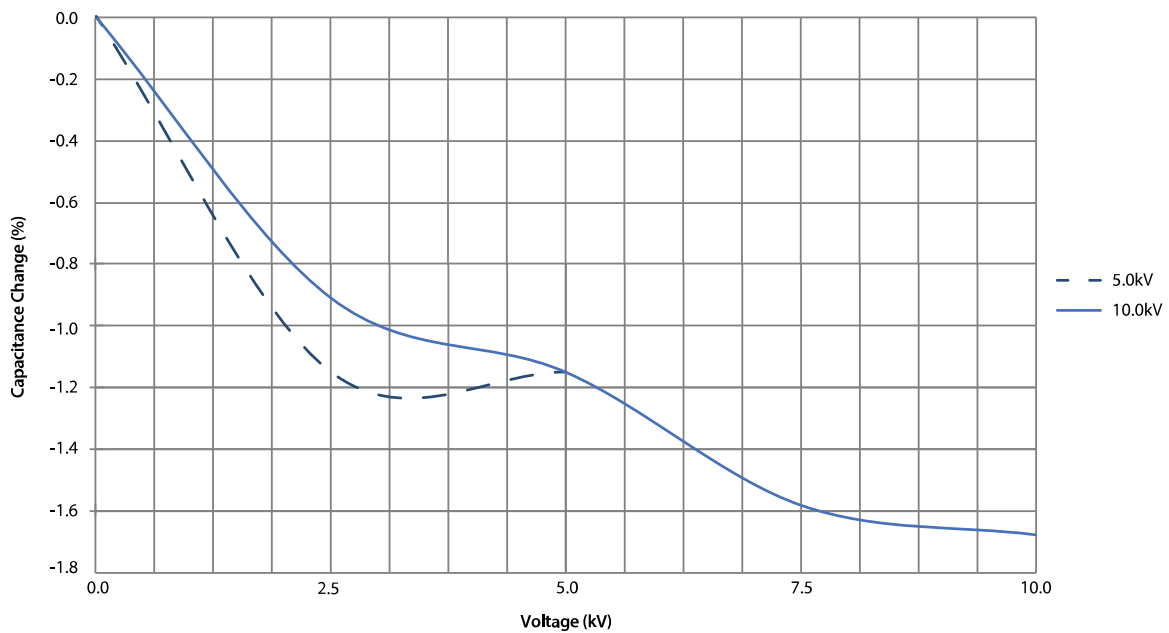


TY1 SERIES (NP0)

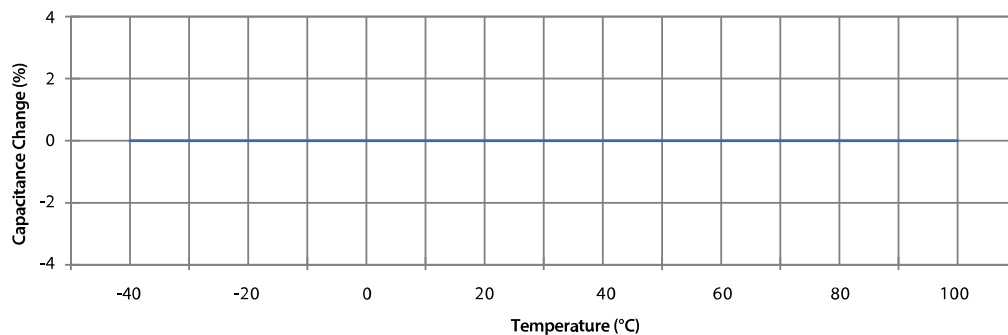
Drawings



NP0 TYPICAL VOLTAGE CHARACTERISTICS CURVE



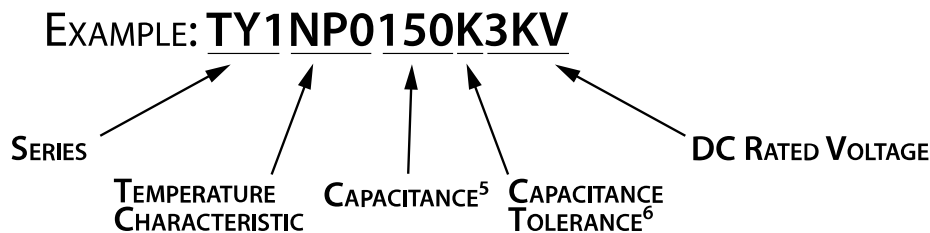
NP0 TYPICAL TEMPERATURE CHARACTERISTICS CURVE





TY1 SERIES (NP0)

PART NUMBER DECODER:



⁵Capacitance decoder: 102 = 1000pF, expressed by three figures.
The first and second figures are significant digits, and the third figure expresses the number of zeros which follows the two numbers. 0 = x1, 1 = x10, 2 = x100, 3 = x1000

⁶TY1NP0 models are also offered with J and M capacitance tolerance. Contact the factory for additional information.

Additional Specifications

	Specifications	Conditions
Operating Temperature Range	-25 to 100°C	-
Temperature Coefficient	-25 and +85°C	-
Dissipation Factor	Q ≥ 400	C < 30pF, +20°C
	Q ≥ 1000	C ≥ 30pF

Note: Specifications subject to change without notice. Photo is representation only.