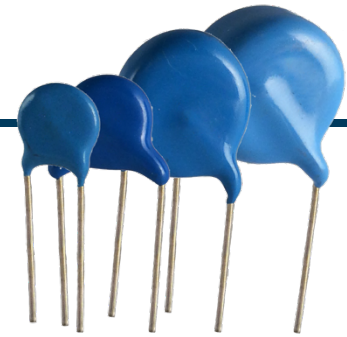




# TY2 SERIES (Y5U)

3 to 20kV  
High Voltage Ceramic Capacitors



## Features

- Radial Leaded Package
- Y5U Temperature Characteristics

## Specifications

Part Number	C pF	Tolerance ±%	V <sub>RATE</sub> kV DC	V <sub>WITHSTAND</sub> kV	D <sup>1</sup> mm	H <sup>1</sup> mm	T <sup>1</sup> mm	L <sup>2</sup> mm	Ls <sup>3</sup> mm	d <sup>4</sup> mm
TY2Y5U331M3KV	330	20	3	4.5	7.0	10.0	4.5	25.0	7.5	0.6
TY2Y5U471M3KV	470	20	3	4.5	7.0	10.0	4.5	25.0	7.5	0.6
TY2Y5U561M3KV	560	20	3	4.5	7.0	10.0	4.5	25.0	7.5	0.6
TY2Y5U681M3KV	680	20	3	4.5	7.0	10.0	4.5	25.0	7.5	0.6
TY2Y5U821M3KV	820	20	3	4.5	7.0	10.0	4.5	25.0	7.5	0.6
TY2Y5U102M3KV	1000	20	3	4.5	7.0	10.0	4.5	25.0	7.5	0.6
TY2Y5U152M3KV	1500	20	3	4.5	8.0	11.0	4.5	25.0	7.5	0.6
TY2Y5U222M3KV	2200	20	3	4.5	8.0	11.0	4.5	25.0	7.5	0.6
TY2Y5U272M3KV	2700	20	3	4.5	9.0	12.0	4.5	25.0	7.5	0.6
TY2Y5U332M3KV	3300	20	3	4.5	10.0	13.0	4.5	25.0	7.5	0.6
TY2Y5U472M3KV	4700	20	3	4.5	12.0	15.0	4.5	25.0	7.5	0.6
TY2Y5U682M3KV	6800	20	3	4.5	13.0	16.0	4.5	25.0	7.5	0.6
TY2Y5U822M3KV	8200	20	3	4.5	15.0	18.0	4.5	25.0	7.5	0.6
TY2Y5U103M3KV	10000	20	3	4.5	16.0	19.0	4.5	25.0	7.5	0.6
TY2Y5U331M4KV	330	20	4	6.0	8.0	11.0	5.0	25.0	10.0	0.6
TY2Y5U471M4KV	470	20	4	6.0	8.0	11.0	5.0	25.0	10.0	0.6
TY2Y5U561M4KV	560	20	4	6.0	8.0	11.0	5.0	25.0	10.0	0.6
TY2Y5U681M4KV	680	20	4	6.0	8.0	11.0	5.0	25.0	10.0	0.6
TY2Y5U821M4KV	820	20	4	6.0	8.0	11.0	5.0	25.0	10.0	0.6
TY2Y5U102M4KV	1000	20	4	6.0	8.0	11.0	5.0	25.0	10.0	0.6
TY2Y5U152M4KV	1500	20	4	6.0	9.0	12.0	5.0	25.0	10.0	0.6
TY2Y5U222M4KV	2200	20	4	6.0	11.0	14.0	5.0	25.0	10.0	0.6
TY2Y5U272M4KV	2700	20	4	6.0	12.0	15.0	5.0	25.0	10.0	0.6
TY2Y5U332M4KV	3300	20	4	6.0	13.0	16.0	5.0	25.0	10.0	0.6
TY2Y5U472M4KV	4700	20	4	6.0	15.0	18.0	5.0	25.0	10.0	0.6
TY2Y5U682M4KV	6800	20	4	6.0	16.0	19.0	5.0	25.0	10.0	0.6
TY2Y5U822M4KV	8200	20	4	6.0	18.0	21.0	5.0	25.0	10.0	0.6
TY2Y5U103M4KV	10000	20	4	6.0	19.0	22.0	5.0	25.0	10.0	0.6
TY2Y5U331M5KV	330	20	5	7.5	8.0	11.0	6.0	25.0	10.0	0.6
TY2Y5U471M5KV	470	20	5	7.5	8.0	11.0	6.0	25.0	10.0	0.6
TY2Y5U561M5KV	560	20	5	7.5	8.0	11.0	6.0	25.0	10.0	0.6
TY2Y5U681M5KV	680	20	5	7.5	8.0	11.0	6.0	25.0	10.0	0.6
TY2Y5U821M5KV	820	20	5	7.5	9.0	12.0	6.0	25.0	10.0	0.6
TY2Y5U102M5KV	1000	20	5	7.5	9.0	12.0	6.0	25.0	10.0	0.6
TY2Y5U152M5KV	1500	20	5	7.5	10.0	13.0	6.0	25.0	10.0	0.6
TY2Y5U222M5KV	2200	20	5	7.5	12.0	15.0	6.0	25.0	10.0	0.6
TY2Y5U272M5KV	2700	20	5	7.5	13.0	16.0	6.0	25.0	10.0	0.6
TY2Y5U332M5KV	3300	20	5	7.5	14.0	17.0	6.0	25.0	10.0	0.6
TY2Y5U472M5KV	4700	20	5	7.5	15.0	18.0	6.0	25.0	10.0	0.6
TY2Y5U682M5KV	6800	20	5	7.5	18.0	21.0	6.0	25.0	10.0	0.6



# TY2 SERIES (Y5U)

Part Number	C pF	Tolerance ±%	V <sub>RATE</sub> kV DC	V <sub>WITHSTAND</sub> kV	D <sup>1</sup> mm	H <sup>1</sup> mm	T <sup>1</sup> mm	L <sup>2</sup> mm	Ls <sup>3</sup> mm	d <sup>4</sup> mm
TY2Y5U822M5KV	8200	20	5	7.5	19.0	22.0	6.0	25.0	10.0	0.6
TY2Y5U103M5KV	10000	20	5	7.5	21.0	24.0	6.0	25.0	10.0	0.6
TY2Y5U331M6KV	330	20	6	9.0	8.0	11.0	7.0	25.0	10.0	0.6
TY2Y5U471M6KV	470	20	6	9.0	8.0	11.0	7.0	25.0	10.0	0.6
TY2Y5U561M6KV	560	20	6	9.0	8.0	11.0	7.0	25.0	10.0	0.6
TY2Y5U681M6KV	680	20	6	9.0	9.0	12.0	7.0	25.0	10.0	0.6
TY2Y5U821M6KV	820	20	6	9.0	10.0	13.0	7.0	25.0	10.0	0.6
TY2Y5U102M6KV	1000	20	6	9.0	10.0	13.0	7.0	25.0	10.0	0.6
TY2Y5U152M6KV	1500	20	6	9.0	11.0	14.0	7.0	25.0	10.0	0.6
TY2Y5U222M6KV	2200	20	6	9.0	12.0	15.0	7.0	25.0	10.0	0.6
TY2Y5U272M6KV	2700	20	6	9.0	13.0	16.0	7.0	25.0	10.0	0.6
TY2Y5U332M6KV	3300	20	6	9.0	15.0	18.0	7.0	25.0	10.0	0.6
TY2Y5U472M6KV	4700	20	6	9.0	17.0	20.0	7.0	25.0	10.0	0.6
TY2Y5U682M6KV	6800	20	6	9.0	20.0	23.0	7.5	25.0	10.0	0.7
TY2Y5U822M6KV	8200	20	6	9.0	21.0	24.0	7.5	25.0	10.0	0.7
TY2Y5U103M6KV	10000	20	6	9.0	23.0	27.0	7.5	25.0	10.0	0.7
TY2Y5U331M8KV	330	20	8	12.0	9.0	12.0	7.5	25.0	10.0	0.6
TY2Y5U471M8KV	470	20	8	12.0	9.0	12.0	7.5	25.0	10.0	0.6
TY2Y5U561M8KV	560	20	8	12.0	9.0	12.0	7.5	25.0	10.0	0.6
TY2Y5U681M8KV	680	20	8	12.0	10.0	13.0	7.5	25.0	10.0	0.6
TY2Y5U821M8KV	820	20	8	12.0	10.0	13.0	7.5	25.0	10.0	0.6
TY2Y5U102M8KV	1000	20	8	12.0	10.0	13.0	7.5	25.0	10.0	0.6
TY2Y5U152M8KV	1500	20	8	12.0	11.0	14.0	7.5	25.0	10.0	0.6
TY2Y5U222M8KV	2200	20	8	12.0	14.0	17.0	7.5	25.0	10.0	0.6
TY2Y5U272M8KV	2700	20	8	12.0	16.0	19.0	7.5	25.0	10.0	0.6
TY2Y5U332M8KV	3300	20	8	12.0	17.0	20.0	7.5	25.0	10.0	0.6
TY2Y5U472M8KV	4700	20	8	12.0	19.0	22.0	7.5	25.0	10.0	0.6
TY2Y5U682M8KV	6800	20	8	12.0	23.0	27.0	8.0	25.0	10.0	0.7
TY2Y5U822M8KV	8200	20	8	12.0	25.0	29.0	8.0	25.0	10.0	0.7
TY2Y5U103M8KV	10000	20	8	12.0	27.0	31.0	8.0	25.0	10.0	0.7
TY2Y5U331M10KV	330	20	10	15.0	8.0	11.0	8.0	25.0	10.0	0.6
TY2Y5U471M10KV	470	20	10	15.0	9.0	12.0	8.0	25.0	10.0	0.6
TY2Y5U561M10KV	560	20	10	15.0	9.0	12.0	8.0	25.0	10.0	0.6
TY2Y5U681M10KV	680	20	10	15.0	10.0	13.0	8.0	25.0	10.0	0.6
TY2Y5U821M10KV	820	20	10	15.0	11.0	14.0	8.0	25.0	10.0	0.6
TY2Y5U102M10KV	1000	20	10	15.0	12.0	15.0	8.0	25.0	10.0	0.7
TY2Y5U152M10KV	1500	20	10	15.0	14.0	17.0	8.0	25.0	10.0	0.7
TY2Y5U222M10KV	2200	20	10	15.0	17.0	20.0	8.0	25.0	10.0	0.7
TY2Y5U272M10KV	2700	20	10	15.0	18.0	21.0	8.0	25.0	10.0	0.7
TY2Y5U332M10KV	3300	20	10	15.0	19.0	22.0	8.0	25.0	10.0	0.7
TY2Y5U472M10KV	4700	20	10	15.0	22.0	26.0	8.0	25.0	10.0	0.7
TY2Y5U682M10KV	6800	20	10	15.0	26.0	30.0	8.5	25.0	10.0	0.7
TY2Y5U822M10KV	8200	20	10	15.0	29.0	32.0	8.5	25.0	10.0	0.7
TY2Y5U331M12KV	330	20	12	18.0	9.0	12.0	9.0	25.0	12.5	0.7
TY2Y5U471M12KV	470	20	12	18.0	10.0	13.0	9.0	25.0	12.5	0.7



## TY2 SERIES (Y5U)

Part Number	C pF	Tolerance ±%	V <sub>RATE</sub> kV DC	V <sub>WITHSTAND</sub> kV	D <sup>1</sup> mm	H <sup>1</sup> mm	T <sup>1</sup> mm	L <sup>2</sup> mm	Ls <sup>3</sup> mm	d <sup>4</sup> mm
TY2Y5U561M12KV	560	20	12	18.0	10.0	13.0	9.0	25.0	12.5	0.7
TY2Y5U681M12KV	680	20	12	18.0	11.0	14.0	9.0	25.0	12.5	0.7
TY2Y5U821M12KV	820	20	12	18.0	11.0	14.0	9.0	25.0	12.5	0.7
TY2Y5U102M12KV	1000	20	12	18.0	12.0	15.0	9.0	25.0	12.5	0.7
TY2Y5U152M12KV	1500	20	12	18.0	13.0	17.0	9.0	25.0	12.5	0.7
TY2Y5U222M12KV	2200	20	12	18.0	17.0	18.0	9.0	25.0	12.5	0.7
TY2Y5U272M12KV	2700	20	12	18.0	18.0	20.0	9.0	25.0	12.5	0.7
TY2Y5U332M12KV	3300	20	12	18.0	20.0	21.0	9.0	25.0	12.5	0.7
TY2Y5U472M12KV	4700	20	12	18.0	23.0	23.0	9.0	25.0	12.5	0.7
TY2Y5U682M12KV	6800	20	12	18.0	27.0	27.0	9.0	25.0	12.5	0.7
TY2Y5U822M12KV	8200	20	12	18.0	30.0	30.0	9.0	25.0	12.5	0.7
TY2Y5U331M15KV	330	20	15	22.5	9.0	12.0	10.0	25.0	12.5	0.7
TY2Y5U471M15KV	470	20	15	22.5	10.0	13.0	10.0	25.0	12.5	0.7
TY2Y5U561M15KV	560	20	15	22.5	11.0	14.0	10.0	25.0	12.5	0.7
TY2Y5U681M15KV	680	20	15	22.5	11.0	15.0	10.0	25.0	12.5	0.7
TY2Y5U821M15KV	820	20	15	22.5	12.0	16.0	10.0	25.0	12.5	0.7
TY2Y5U102M15KV	1000	20	15	22.5	12.0	16.0	10.0	25.0	12.5	0.7
TY2Y5U152M15KV	1500	20	15	22.5	16.0	20.0	10.0	25.0	12.5	0.7
TY2Y5U222M15KV	2200	20	15	22.5	18.0	22.0	10.0	25.0	12.5	0.7
TY2Y5U272M15KV	2700	20	15	22.5	20.0	24.0	10.0	25.0	12.5	0.7
TY2Y5U332M15KV	3300	20	15	22.5	21.0	25.0	10.0	25.0	12.5	0.7
TY2Y5U472M15KV	4700	20	15	22.5	25.0	29.0	10.0	25.0	12.5	0.7
TY2Y5U682M15KV	6800	20	15	22.5	30.0	34.0	10.0	25.0	12.5	0.7
TY2Y5U331M20KV	330	20	20	30.0	11.0	15.0	11.0	25.0	12.5	0.7
TY2Y5U471M20KV	470	20	20	30.0	12.0	16.0	11.0	25.0	12.5	0.7
TY2Y5U561M20KV	560	20	20	30.0	13.0	17.0	11.0	25.0	12.5	0.7
TY2Y5U681M20KV	680	20	20	30.0	14.0	18.0	11.0	25.0	12.5	0.7
TY2Y5U821M20KV	820	20	20	30.0	15.0	19.0	11.0	25.0	12.5	0.7
TY2Y5U102M20KV	1000	20	20	30.0	16.0	20.0	11.0	25.0	12.5	0.7
TY2Y5U152M20KV	1500	20	20	30.0	19.0	22.0	11.0	25.0	12.5	0.7
TY2Y5U222M20KV	2200	20	20	30.0	21.0	25.0	11.0	25.0	12.5	0.7
TY2Y5U272M20KV	2700	20	20	30.0	23.0	27.0	11.0	25.0	12.5	0.7
TY2Y5U332M20KV	3300	20	20	30.0	25.0	29.0	11.0	25.0	12.5	0.7
TY2Y5U472M20KV	4700	20	20	30.0	30.0	34.0	11.0	25.0	12.5	0.7

<sup>1</sup>Maximum dimension.

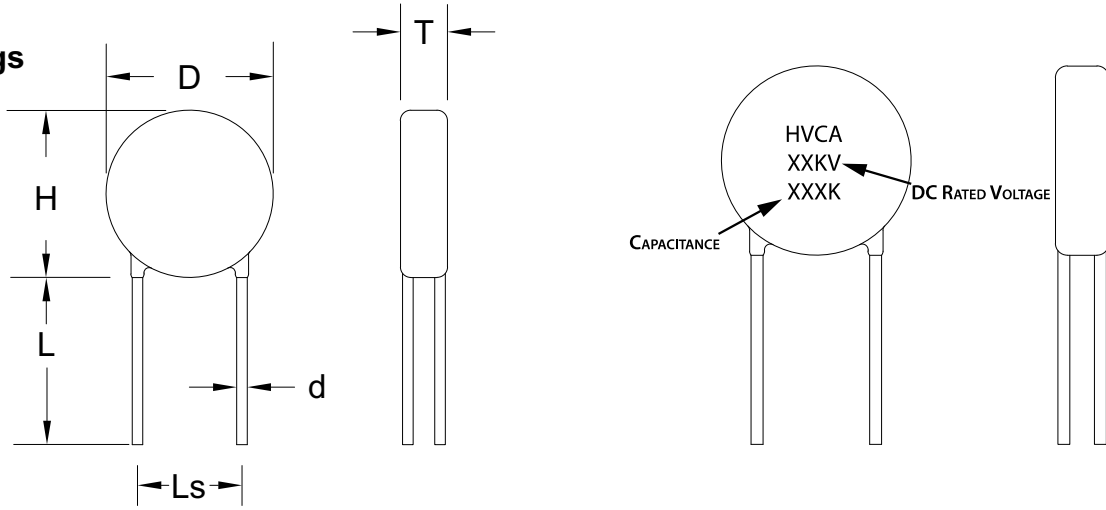
<sup>2</sup>Minimum dimension.

<sup>3</sup>Ls has a ±1.5mm tolerance.

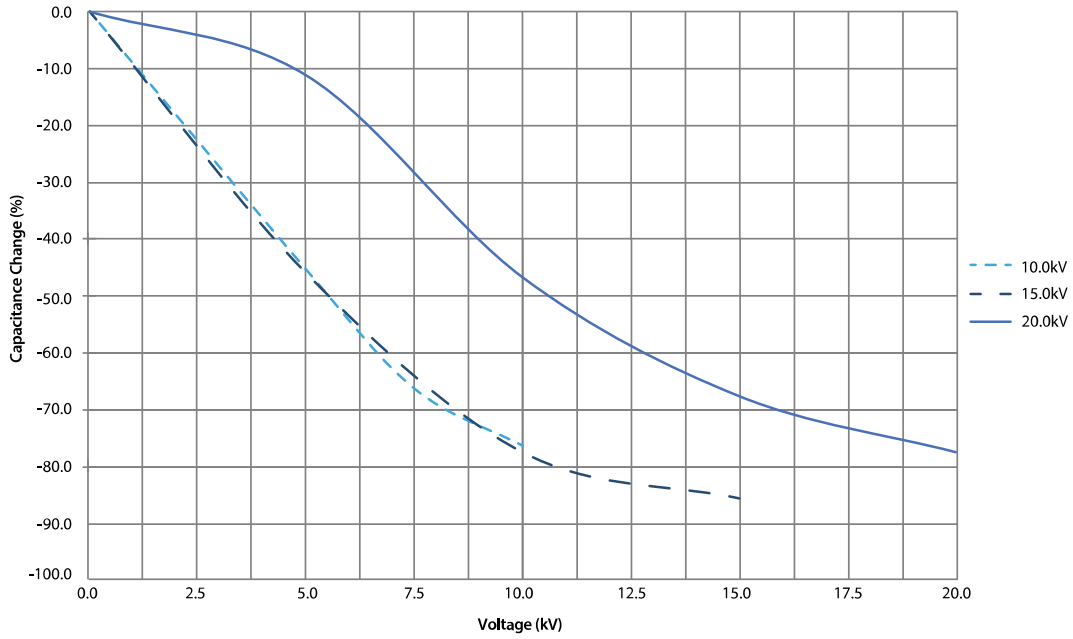
<sup>4</sup>Typical.



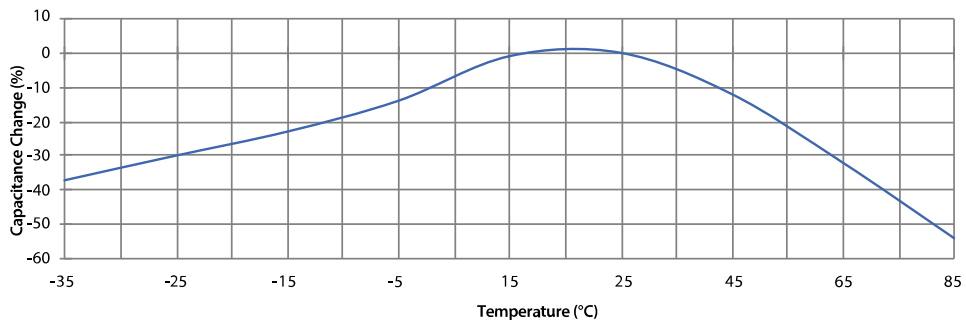
## Drawings



Y5U TYPICAL VOLTAGE CHARACTERISTICS CURVE

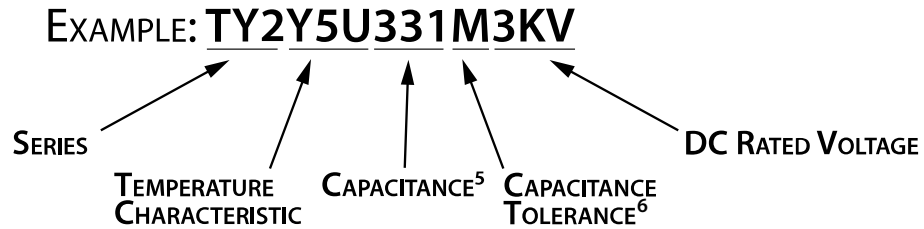


Y5U TYPICAL TEMPERATURE CHARACTERISTICS CURVE





## PART NUMBER DECODER:



<sup>5</sup>Capacitance 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

<sup>6</sup>TY2Y5U models are also offered with K and Z capacitance tolerances. Contact the factory for additional information.

## Additional Specifications

Specifications	
Operating Temperature Range	-25 to 100°C
Temperature Coefficient	-25 and +85°C
Dissipation Factor	2.5% Max

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

