

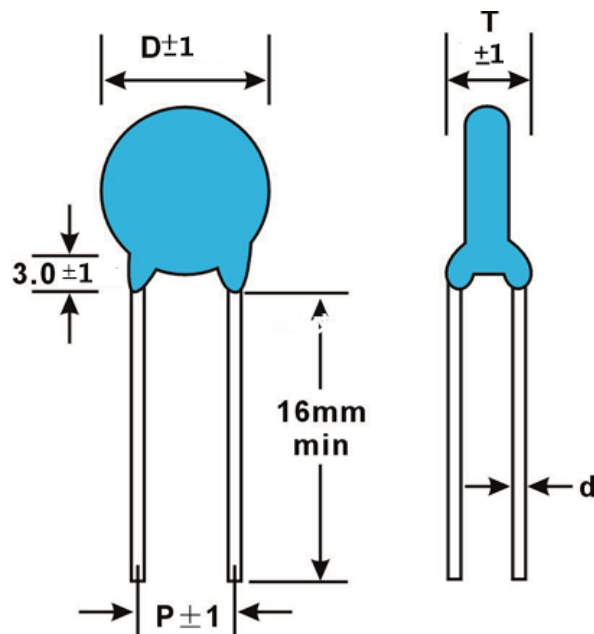
# CT81 HIGH VOLTAGE CERAMIC CAPACITOR

## FEATURES

Use for coupling, and by-pass circuit.  
Stable and high reliability products

## SPECIFICATIONS

OPERATING TEMPERSTURE RANGE	Class 1 -25°C to +125°C Class 2 -25°C to +105°C
TEMPERATURE COEFFICIENTS	Class 1 NPO SL Class 2 Y5P Y5U Y5V
RATED WORKING VOLTAGE	500V - 6000V. DC
CAPACITANCE RANGE	100pF – 10,000pF
TEST VOLTAGE	2 times of the rated voltage.
INSULATION RESISTANCE	10,000 MΩ or 200 MΩ whichever is the smaller
DISSIPATION FACTOR (tanδ)	at 1 KHz, ±0.2 Vrms, 25°C Y5P, Z5U .....: $\tan \delta \leq 2.5\%$ Y5V Y5U .....: $\tan \delta \leq 5\%$ NPO SL .....: $<30P \ Q>600$ $\geq 30P \ Q>1000$



## How to order

<u>CT81</u>	<u>P</u>	<u>102</u>	<u>K</u>	<u>1000</u>	<u>0050</u>	<u>B</u>	<u>000</u>
<u>Type</u>	<u>Material Code</u>	<u>Capacitance Code</u>	<u>Tolerance</u>	<u>Rated Voltage</u>	<u>Size Code</u>	<u>Package Code</u>	<u>Suffix Indicate Special Requirement</u>
CT81	<b>Code for Dielectrics</b> B: X7R E: Z5U Z: Y5V U: Y5U P: Y5P V: Z5V X: X5R Y: Y5T D: N4700 N: NPO S: SL	<b>pF Code: 1st two digits</b> represent significant figures 3rd digit represents multiplier (number of zeros to follow) 104 = 0.1uF 100= 10pF 470= 47pF 0R1= 0.1pF R47=0.47pF	<b>K: +/-10%</b> J: +/-5% K: +/-10% M: +/-20% Z: +80-20%	<b>For DC Voltage</b> 0500: 500VDC 2000: 2000VDC 3000: 3000VDC	<b>Pitch for CT81</b> 0050: pitch size 5mm 0075: pitch size 7.5mm 0100: pitch size 10mm	<b>B: Bulk</b> <b>A: Ammo Taped</b> <b>R: Tape &amp; Reel</b>	<b>000: Indicating Standard</b> <b>If for cut leads or long leads:</b> 000: mean standard LL 035: cut leads to 3.5mm 040: cut leads to 4mm 250: 25mm long leads



## CT81 HIGH VOLTAGE CERAMIC CAPACITOR

Item		500V				1 KV				2 KV				3 KV				Remark
Dielectric	Capacitance Code Tolerance Code	D±1	T±1	P±1	d± 0.05	D±1	T±1	P±1	d± 0.05	D±1	T±1	P±1	d± 0.05	D±1	T±1	P±1	d± 0.05	
NPO	1R0-9R0 D	5.5	2.2	5	0.5	5.5	2.2	5	0.5	6.0	2.3	5.0	0.5	/	/	/	/	
NPO	100 K	5.5	2.2	5	0.5	5.5	2.2	5	0.5	6.0	2.3	5.0	0.5	/	/	/	/	
SL	120-101K	5.5	2.2	5	0.5	5.5	2.2	5	0.5	6.0	2.8	5.0	0.5	6.0	3.5	7.5	0.7	
Y5P	120-101K	5.5	2.2	5	0.5	6	2.3	5	0.5	6.0	2.8	5.0	0.5	6.1	3.5	7.5	0.7	
Y5P	151-561K	6	2.2	5	0.5	6	2.3	5	0.5	6.0	3.0	5.0	0.5	/	/	/	/	
Y5U	102M	6.5	2.3	5	0.5	/	/	/	/	5.6	3.0	5.0	0.5	6.0	3.5	7.5	0.7	
Y5P	681-102K	6	2.2	5	0.5	6.5	2.3	5	0.5	8.0	3.0	5.0	0.5	9.1	3.5	7.5		
Y5V	122-222Z	6	2.2	5	0.5	/	/	/	/	6.0	3.0	5.0	0.5	/	/	/	/	
Y5U	122-222M	6	2.2	5	0.5	7	2.3	5	0.5	8.0	3.0	5.0	0.5	9.1	3.5	7.5		
Y5P	122-222K	8	2.2	5	0.5	8.5	2.3	5	0.5	11.0	3.0	7.5	0.6	/	/	/	/	
Y5V	272-472Z	6	2.2	5	0.5			5	0.5	9.0	4.0	7.5	0.6					
Y5U	272-472M	7	2.2	5	0.5	8	2.3	5	0.5	10.0	3.0	5.0	0.5	13.1	3.8	10.0	0.7	
Y5P	272-472K	11	2.2	5	0.5	12	2.3	5	0.5	14.4	3.0	7.5	0.6	/	/	/	/	
Y5P	562K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
Y5V	682-103Z	8	2.2	5	0.5	9	2.3	5	0.5	11.0	3.0	7.5	0.6					
Y5U	682-103M	9	2.2	5	0.5	12	2.3	5	0.5	14.4	3.0	10.0	0.6	17.2	3.8	10.0	0.7	
Y5V	153-223Z	11	2.2	5	0.5	14	2.5	7.5	0.6	/	/	/	/	/	/	/	/	
Y5V	473Z	/	/	/	/	17	2.5	10	0.7	/	/	/	/	/	/	/	/	
Y5V	473M	15	2.3	7.5	0.5	/	/	/	/	/	/	/	/	/	/	/	/	
Y5V	104Z Φ19	20	2.3	7.5	0.5	20	2.8	10	0.7	/	/	/	/	/	/	/	/	
Y5V	104Z Φ24	23.5	2.3	7.5	0.5	22	2.8	10	0.7	/	/	/	/	/	/	/	/	

Ammo Taped and Cut Leads are available on request. Special size is on request too.

## CT81 HIGH VOLTAGE CERAMIC CAPACITOR

Item		4KV				5KV				6KV				Remark
Dielectric	Capacitance Code	D±1	T±1	P±1	d±0.05	D±1	T±1	P±1	d±0.05	D±1	T±1	P±1	d±0.05	
Y5P	101 K	6.0	3.0	7.5	0.6	6.0	3.5	10.0	0.6	6.0	3.5	10.0	0.60	
Y5P	151 K	6.0	3.5	7.5	0.6	6.0	4.5	10.0	0.6	6.0	4.5	10.0	0.60	
Y5P	221 K	6.0	3.5	7.5	0.6	6.0	4.5	10.0	0.6	6.0	4.5	10.0	0.60	
Y5P	271 K	7.0	3.5	7.5	0.6									
Y5P	331 K	6.5	3.5	7.5	0.6	7.0	4.5	10.0	0.6	7.0	4.5	10.0	0.60	
Y5U	331 K					6.0	4.5	10.0	0.6	6.0	4.5	10.0	0.60	
Y5P	471 K	6.5	3.5	7.5	0.6	8.0	4.5	10.0	0.7	8.0	4.5	10.0	0.70	
Y5U	471 K					6.0	4.5	10.0	0.6	6.0	4.5	10.0	0.60	
Y5P	561 K					9.0	4.5	10.0	0.7	9.0	4.5	10.0	0.70	
Y5U	561 K					7.0	4.5	10.0	0.6	7.0	4.5	10.0	0.60	
Y5P	681 K	7.5	3.5	7.5	0.6	9.0	4.5	10.0	0.7	9.0	4.5	10.0	0.70	
Y5P	102 K	9.0	3.5	7.5	0.6	11.0	4.5	10.0	0.7	11.0	4.5	10.0	0.70	
Y5U	102 M					7.0	4.5	10.0	0.6	7.0	4.5	10.0	0.60	
Y5V	102 M					6.0	4.5	10.0	0.6	6.0	4.5	10.0	0.60	
Y5U	152 M	8.0	3.5	7.5	0.6	9.0	4.5	10.0	0.6	9.0	4.5	10.0	0.60	
Y5V	152 M	6.0	3.5	7.5	0.6	7.0	4.5	10.0	0.6	7.0	4.5	10.0	0.60	
Y5U	222 M	9.0	3.5	7.5	0.6	10.0	4.5	10.0	0.7	10.0	4.5	10.0	0.70	
Y5V	222 M	7.0	3.5	7.5	0.6	8.0	4.5	10.0	0.7	8.0	4.5	10.0	0.70	
Y5U	332 M	11.0	3.5	7.5	0.6	13.5	4.5	10.0	0.7	13.5	4.5	10.0	0.70	
Y5V	332 M	8.0	3.5	7.5	0.6	10.0	4.5	10.0	0.7	10.0	4.5	10.0	0.70	
Y5U	472 M	13.0	3.5	10.0	0.7	16.5	5.0	10.0	0.7	16.5	5.0	10.0	0.70	
Y5V	472 M	9.0	3.5	7.5	0.6	11.0	4.5	10.0	0.7	11.0	4.5	10.0	0.70	
Y5U	103 M	17.5	3.5	10.0	0.7									
Y5V	103 M	13.5	3.5	10.0	0.7					16.0	5.0	10.0	0.70	
Y5V	203 M	20.5	3.5	10.0	0.7									
Y5V	223 M	20.5	3.5	10.0	0.7									

Ammo Taped and Cut Leads are available on request. Special size is on request too.

Please consult to sales if you need higher voltage than 6KV or other values.