

Manufacturer : Anshan Keifat Electronic Ceramic Technical Co.,Ltd. No:

## Approval Sheet for Product Specification

**Customer:**

**Product: Safety Certificated Ceramic Capacitor Chip**

**PART No.:**

**Mfr. P/N:**

**Date:**        年    月    日

Manufacturer		Customer Confirm	
Prepared by	刘春鹏	合 格 OK <input type="checkbox"/>	
		不 合 格 NG <input type="checkbox"/>	
Checked by	范亚岩	Checked by	
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**Revision History**

Edition	Date	Contents of formulation / modification / repeal	Formulation	Approval
A		New edition released	刘春鹏	范亚岩



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■ **Trait**

- The copper electrode is prepared by chemical deposition method.
- The edge of the chip is polished by an edge grinding process.
- Symmetrical full electrodes, more uniform electric field, eliminates the flexible bending vibration caused by electro-induced strain, and improves the dielectric strength of the ceramic capacitor.

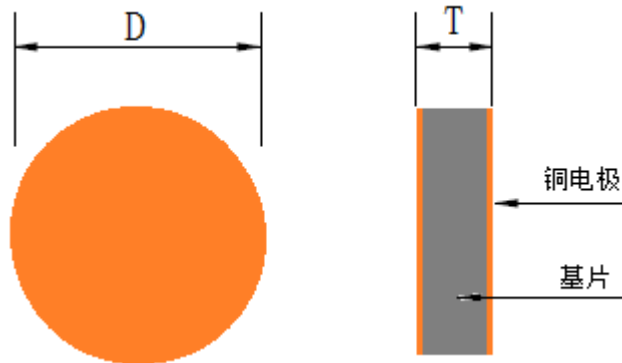
■ **Application**

- Used as an AC line filter and switching power supply and AC converter primary coupling X/Y grade capacitor chip.

■ **Range Of Capacity**

22 pF to 10,000pF

■ **Dimensions**



D:Chip diameter

T:Chip thickness

■ **Shape deviation:**

$D = \pm 0.1\text{mm}$

$T = \pm 0.05\text{mm}$

■ **Substrate abbreviation:**

Five digits of substrate number

The first two digits represent the chip diameter in 1/10 mm, and the last three digits represent the chip thickness in 1/100 mm.

Six digits of the substrate number

The first three digits indicate the diameter of the chip, in 1/10 mm, and the last three digits indicate the thickness of the chip in 1/100 mm.



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■ **Specifications**

Rated Voltage	Temp. char.	Cap. range	D (mm)	T (mm)
<b>250VAC/400VAC-Y1</b>	SL	22~100pF	See specific specification	
	B (Y5P)	47~1500pF	See specific specification	
	E (Y5U、Z5U)	470~4700pF	See specific specification	
	F (Y5V、Z5V)	1000~10000pF	See specific specification	
<b>250VAC-Y2</b>	SL	22~150pF	See specific specification	
	B (Y5P)	47~2200pF	See specific specification	
	E (Y5U、Z5U)	470~1000pF	See specific specification	
	F (Y5V、Z5V)	1000~10000pF	See specific specification	

■ **Room Condition**

Temp.: 15°C~35°C Humi.: 45%~75%RH

Pres.: 86~106kPa (860~1060mbar)

■ **Test Condition**

Temp.: 20±2°C R.H.: 60~70%RH

Vol : 1.0±0.2Vrms Freq: Y5P、Y5U、Y5V、Z5V、Z5U: 1±0.1KHz; SL: 1±0.1MHz

■ **Temperature Characteristics**

Category temperature range	Capacity change rate	GB code	EIAcode
-25°C~+85°C	±10%	2B4	Y5P
-25°C~+85°C	+22~-56%	2E4	Y5U
-25°C~+85°C	+30~-82%	2F4	Y5V
+10°C~+85°C	+22~-56%		Z5U
+10°C~+85°C	+30~-82%		Z5V
+25°C~+85°C	+350~-1000ppm/°C	SL	
-25°C~+85°C	-750±120ppm/°C	UJ	N750



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■ **Part Code Designation**

CT7 -400VAC -Y1 - B- 221 k -47 180

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① **Type**

Code	Type
CT7	II High-Voltage

② **Rated Voltage**

Code	Rated Vol.
400VAC	400V

③ **Grade number**

Code	Grade number
Y1	Y1
Y2	Y2

④ **Temperature Characteristic**

GB	EIA	Temp. range	Cap. Change
B	Y5P	-25~+85℃	±10%
E	Y5U	-25~+85℃	+22%~-56%
	Z5U	+10~+85℃	+22%~-56%
F	Y5V	-25~+85℃	+30%~-82%
	Z5V	+10~+85℃	+30%~-82%
SL		+25~+85℃	+350~-1000ppm/℃
UJ	N750	-25~+85℃	-750±120ppm/℃

⑤ **Capacitance**

Code	Capacitance
47	47pF
101	100 pF
102	1000 pF

⑥ **Tolerance**

Code	Tolerance
J	±5%
K	±10%
M	±20%

⑦ **Chip diameter**

Code	unit
47	47/10 mm

⑧ **Chip thickness**

Code	unit
180	180/100 mm

■ **Withstand voltage test:**

test temperature: 20——25℃

Test condition: Silicone oil

Pressure test: Y1 ≥6.5KVAC Y2 ≥4.0KVAC



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<p>■ <b>Storage and use period requirements</b></p> <p>Storage environment requirements: Temperature: -10°C ~ +40°C Relative humidity: no more than 75%RH</p> <p>Use period:</p> <ol style="list-style-type: none"><li>1. Without opening, the storage period is 6 months.</li><li>2. If it has been opened, use it up within 48 hours.</li></ol> <p>■ <b>Packaging, storage and use conditions</b></p> <p>Use vacuum packaging to prevent impact during transportation. Do not store the chip in corrosive gas, especially where chlorine, sulfur, acid, alkali, salt, etc.</p> <p>It is strictly forbidden to touch the capacitor chip directly with your hands to prevent oxidation and pollution of the chip.</p> <p>Used up as soon as possible after opening the bag during the production process, and keep the remaining chips in a sealed bag as far as possible.</p>		