

Super high pressure series products

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In order to pursue the stability and quality of the end customer, we mainly choose the material with low loss, high Q value, low ESR, Y5U or Y5V material value will be provided unless the user expects a capacity of more than 2200pF and the environmental conditions are not severe.

Chiefcon is currently one of the few EHV capacitor manufacturers in China that can compete with Murata(which has stopped production in 2018 with 2.5% DF value below 15kV / 1kHz) and Vishay.

Low loss products provide 10KV, 15KV, 20KV series for customers to choose, basic customer selection, the test voltage can reach 1.5 times, the rated voltage and current is not more than 50mA, at 85°C for at least 1000 hours test IR is not less than 1000 meohm.

The folloeing is the temperature characteristics are in accordance with EIA standard RS-198-C used by typical customers .

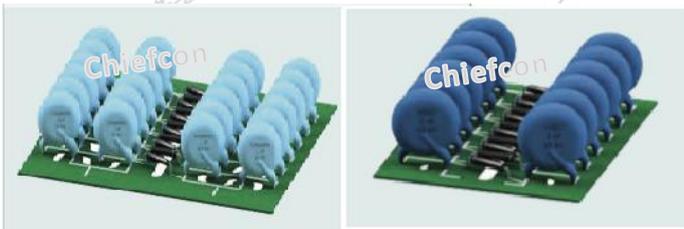
Using the circuit :

1. High Voltage Multiplies
2. High Voltage Noise Filtrs
3. High Voltage Power Supplies
4. RF Caupling
5. RF Bypass

Using the product :

1. X-ray inspection equipment
2. MRI nuclear magnetic testing equipment
3. Flexible transmission and distribution switch
4. Transmission and distribution grounding
5. DC filtering for energy storage equipment

As most of the customer applications are serial and parallel (Figure 1), the reliability of the product becomes the key to the reliability of the whole machine.



圖一 (Figure 1)

Chiefcon development oil wet full inspection equipment (Figure 2) for testing, the current defect rate is controlled below 100PPM. In order to assist customers in the design and mass production of the machine types of bad to a minimum.



圖二 (Figure 2)

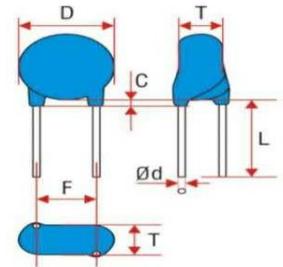
High Voltage Ceramic Capacitor DC

■ Features

- 1.Low Losses
- 2.High Stability
- 3.High capacitor in small size and high dielectric strength voltage

■ Application

- 1.TV and monitors
- 2.High voltage power (ex、x-ray、lasers、apparatus、etc...)



Specification

Temperature range	- 25 °C ~ + 85°C
Working Voltage	10KV、15KV、20KV
Rated Voltage	1.5 times the rated voltage between two conductors,times 1S, charging and discharging current less than 50mA.
Dissipation Factor	Y5P 2.5% Max. at 1KHz

Capatance	texture of material	DF MAX at 1KHz	Pitch
100pF~3300pF	Y5P	2.50%	10、12.5
1000pF~4700pF	Y5U	3.50%	10、12.5
1000pF~10000pF	Y5V	5%	10、12.5

Temperature Characteristic		Y5P(B4)			N4700(EL)		
Rated voltage		10KV(4A)	15KV(4N)	20KV(4D)	10KV(4A)	15KV(4N)	20KV(4D)
Capacitance	100pF	9.0	9.00	9.5	9.0	9.0	
	150pF	9.0	9.50	11.0	9.5	10.0	
	220pF	10.0	10.50	12.5	10.5	11.5	
	330pF	11.5	12.00	14.0	12.0	13.0	
	470pF	13.0	14.00	16.0	13.5	14.5	
	680pF	15.0	16.00	18.5	16.0	17.0	
	1000pF	17.0	18.00	22.0	19.0	21.0	
	1500pF 2200pF	20.0 24.0	22.00 25.00				
Dimensions(mm)	T (max)	7.0	8.50	11.0	7.0	8.5	10.5
	F	10.0±1.0	10.0±1.0 12.5±2.0	12.5±2.0	10.0±1.0	10.0±1.0 12.5±2.0	12.5±2.0
	L (mm)	26.0 32.0	26.0 32.0	26.0 32.0	26.0 32.0	26.0 32.0	26.0 32.0
	Φd (±0.05)	0.65	0.65 0.80	0.80	0.65	0.65 0.80	0.80
Coating	Epoxy resin						