



**ZEONICS SYSTECH**  
DEFENCE & AEROSPACE ENGINEERS (P) LTD.



# High Voltage RF Capacit



In all

different applications where radio frequencies are used we use capacitances which are low value of 50pF, 100pF, 3000pF but the currents are very large, right upto 500 or 600A rms. These capacitors need to have large current values. We manufacture Capacitors which are used for experimentation and applications where high energy triodes, tetrodes and pentodes are working or applications where capacitor needs to be working in a stressed area of voltage, current and temperature.

# Proudly Made in INDIA



## High Voltage RF Capacitor

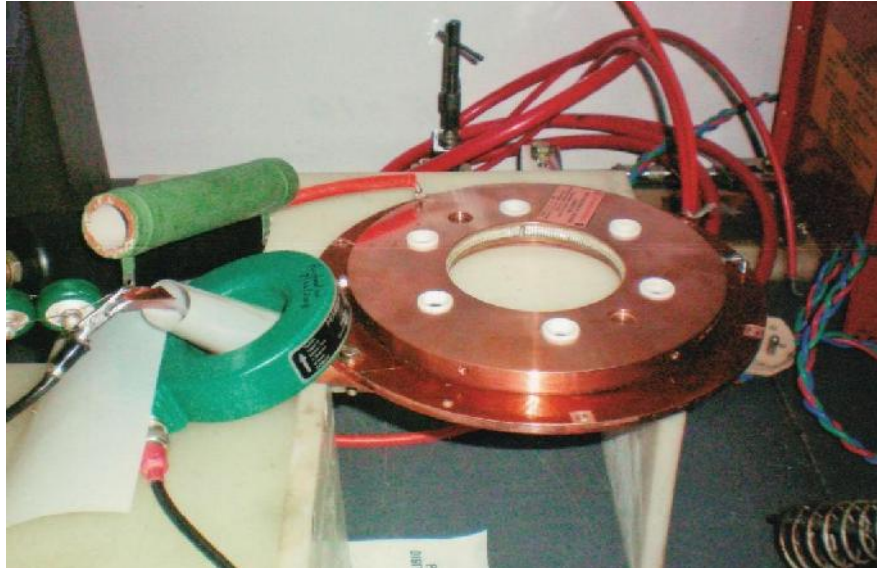
1. Capacitance : 300pF to 10000pF
2. High rms Continuous current typically 100A to 900A
3. Typical Frequency : 100 MHz
4. Typical Inductance :  $ESL \leq 100nH$
5. Temperature :  $-20^{\circ}C$  to  $+120^{\circ}C$
6. Type No. : S/14/126 (805)



## High Voltage Capacitor

1. Working voltage : 30 kV DC
2. Capacitance :  $1200pF \pm 10\%$

- 3. Test Voltage : 36 kV DC
- 4. Type No : S/16/16 (924)



### Flat Radio Frequency Capacitor

- 1. Maximum Working voltage : 5kV DC
- 2. Typical Capacitance : 100pF to 600pF
- 3. Typical Currents : 50A rms to 130A at 100 MHz
- 4. Type No. : ZHS/01/1
- 5. Typically used as base capacitors for Tetrodes & such high power tubes



### High Voltage RF Blocking Capacitor

- 1. Working Voltage : 20kV D.C. to 100kV D.C.
- 2. Test Voltage : Typically 20% extra voltage
- 3. Typical Capacitance : 500pf to 10,000pf
- 4. Radio Frequency Current : 100A to 400A
- 5. Type No. : S/15/95
- 6. Used for grid blocking or anode blocking in very high power radio frequency systems.



## High Voltage Marine Capacitor

1. Capacitance : 0.25 $\mu$ F to 10.0 $\mu$ F
2. Working Voltage : 10kV DC to 60kV DC (or 25kV to 100kV)
3. Type No : S/15/102 (899)

### Applications

These capacitors are used in nuclear power stations, thermo-fusion reactor systems, experimental laboratories, radio stations wherever radio frequencies are used at medium voltage of 10, 20kV but very high rms currents. Also for high power sources, Magnetron, Thyatron, Gyatron and similar applications where large current radio frequency capacitors are essential.

### Advantages

We can build capacitors around systems, custom design the shape and size of the equipment, prepare it as a distributed component around the device, ensuring least inductance and the highest amount of power distribution possibly for given volume. We can also work out cooling arrangements for special capacitors.

### Installation

Geometry is of paramount important in these Capacitors. Once we know the geometry of the components it is very easy for us to make the capacitor around the device. Simple installation may also be possible in case it is oil immersed.

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