



ZEONICS SYSTECH
DEFENCE & AEROSPACE ENGINEERS (P) LTD.



Special Purpose High Voltage Spark Gaps



At Zeonics we manufacture different types of Spark Gaps and Assemblies which are required for different uses. One of them is a rotating Spark Gap, where we can generate very high voltage and very high frequency pulses.

Pulses can be up to 400Hz with voltages in the region of 200kV and energies in the region of 5kJ. These systems are used for different applications like Electrostatic precipitation and special kind of very rough, robust and rugged uses. Spark Gaps can also be designed for low inductance requirements and for requirements where one requires a lot of current with low profile geometries. High repetition rate Spark Gaps can also be designed.

Proudly Made in INDIA





High Voltage High Current Spark Gaps

1. Working Voltage : 20kV, 30kV, 40kV
2. Peak Current : 150kA to 400kA
3. Pulse Width : 100 μ s to 420 μ s
4. Energy : 10kJ, 20kJ, 50kJ
5. Dimensions : Diameter : 250 to 350mm Height : 150 to 200mm
6. Type No. : Z/32/85 (917)



High Voltage Detonation Spark Gap

1. SBV : 20kV / 30kV / 40kV
2. I peak : 6kA to 25kA
3. PRR : Single shot high reliability
4. Life : 1000 Shots at 20kA
5. Application : Detonation Sets
6. Trigger Voltage : 16kV to 20kV
7. Type No. : Z/21/40



High Voltage Terminal Spark Gap

1. Input : 50kV DC
2. Output : Pulsed 50kV DC
3. PRR : 200Hz or 450Hz
4. Energy : 100 joules /Pulse
5. Motor HP : 1HP 230Volt 1Ø
6. Drive : Digital 0 to 1440rpm
7. Duty : 8hours ON; 4 hours OFF
8. Type No. : Z/40/26 (Y-1173)



High Voltage Detonation Spark Gap

1. Type : 2 Terminal
2. Tips : Tungsten with air flow
3. Gas flow : Input/ Output
4. Gas : Nitrogen at 50 Lpm Flow
5. Working voltage : 30kV to 80kV
6. PRR : 10pps
7. Type No. : Z/33/165



Trigratron Type High Voltage Terminal Spark Gap

- 1. SBV : 5kV DC to 20kV DC
- 2. Peak Current : 5kA/10kA/20kA
- 3. Type No : Z/40/110



High Voltage Spark Gap

- 1. SBV : 60kV at 50 psi, > 90kV at 100 psi, ≈ 120kV at 140 psi
- 2. I peak : 10kA maximum, single shot /1kA maximum at 10 pps
- 3. Gas : Nitrogen / SF6
- 4. Type No. : Z/30/58 (852)

Advantages

We have developed these spark gaps totally in-house. Our spark gaps are built in a very rugged manner and are known for their incredible performance. Once the spark gap is purchased from us, we can easily assist our customers with any required repairs or replacements as the entire unit is purely manufactured by us.

Contact: Zeonics Systech Defence & Aerospace Engineers Pvt. Ltd.
"ADAR" #3, 10th Main, 7th Cross, Maruthinagar, New Thippasandra P.O.,
Bangalore - 560075.
Ph: +91 080-50092601, 080-50092602, 080-50092603, 080-25241900, 080-
25241901, 080-25240523
Email: zeonicssys@gmail.com ; contact@zeonicssystech.com
Web Sites: www.systechcapacitors.com ; www.zeonicssystech.com