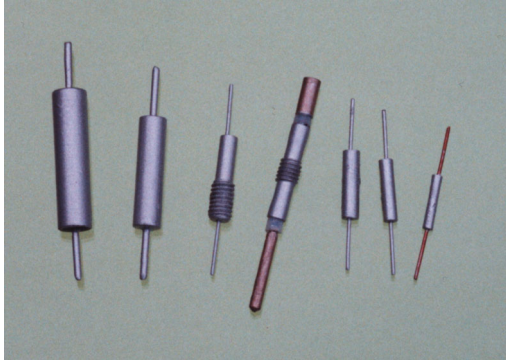
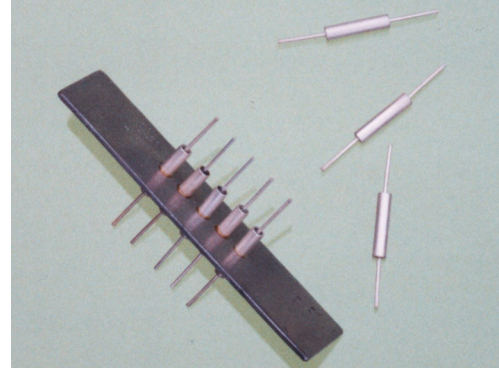


COAXIAL SURGE ARRESTER ULTRAFAST GAS DISCHARGE TUBE

SUR700 Series



SUR700 Series



SUR720/200

The SUR700 Series of ultra fast gas filled surge arresters are of miniature concentric construction and were designed for series insertion into coaxial signal lines of either 50Ω or 75Ω up to GHz frequencies with minimal mismatch.

The arresters will protect against all forms of overvoltage surge interference caused by lightning, ESD, NEMP and other nanosecond pulses.

Applications

High Frequency Protection – the coaxial in-line construction matching the particular line impedance allows protection on high-frequency systems without affecting performance. Conventional surge arresters are normally used in shunt configuration, where even a few pF can affect high frequency signals, whereas with the SUR 700 models the arrester becomes part of the signal line. This makes these devices ideal in forming an integral part of coaxial connectors, and for applications such as cable TV, mobile telecomms and ISDN.

High Density Protection – the arrester may be supplied in filter-pin form for use in multipin circular connectors such as Series 482 or Mil-C-38999 to provide high-density lightweight protection suitable for avionics applications, especially given the growing use of composite materials rather than metals in aircraft construction. The arresters may be soldered directly into a plate or case which presents an affordable method of protecting all leads entering or leaving a sealed unit.

Characteristics (SUR720/200. Diameter 2.0mm. Illustrated in above pictures)

| | | |
|--------------------------------------|-----------|---------------------------|
| DC Sparkover Voltage | 150 – 300 | Volts |
| Impulse Sparkover Voltage (nom) | 400 | Volts (@ 1kV/μsec) |
| Impulse Sparkover Voltage (nom) | 1000 | Volts (@ 1kV/nanosec) |
| Impulse Discharge Current | 1 – 5 | Kiloamps (size dependent) |
| Insulation Resistance (min) | 1000 | Megohms |
| Central Conductor Continuous Current | 2 – 5 | Amps (size dependent) |
| Characteristic Impedance | 50 or 75 | Ohms |
| Maximum Signal Frequency | 2.8 | GHz |

Different sizes are available ranging in diameter from 1.5mm to 6.0mm o/d.

This device can be supplied either as a component, ready assembled in filter-pin format, or mounted complete in a connector.



www.surgetech.co.uk

EXPERIENCE WORLDWIDE

SURGETECH LIMITED

Durlston House
North Street
Westbourne
Emsworth
Hampshire PO10 8SN

Tel: +44(0)1243-379613
Fax: +44(0)1243-370003

65 Elmwood Road
West Croydon
Surrey
CR0 2SX

Tel: +44(0)20-8684 6771
Fax: +44(0)20-8665 6968