

Surge Suppressors

Our compact Low Voltage/High Energy Surge Suppressors combine in one unit the low clamping voltage and high surge current capabilities needed to protect solid state power and electronic systems from severe lightning-induced and other over-voltage surges.

The suppressor is packaged to withstand rugged airborne and ground-based environments and will clamp repetitive high energy transients. It is designed for use in a wide variety of applications. These Surge Suppressors protect both 28V DC and 115V AC Systems.

The Low Voltage/High Energy Surge Suppressors operation has been verified for single pulse and multiple pulse (multiple stroke) environments. This assures the suppressor will provide protection in the multiple stroke lightning environments for aluminum structures (6 x 70 μ S wave-form), all composite structures (50 x 500 μ S wave-form), and mixed structures (40 x 120 μ S wave-form). The unipolar model is designed for DC power or signal circuits where the operating voltage is of only one polarity and surge voltages of the other polarity must be clamped to very low levels.

The Low Voltage/High Energy Surge Suppressors are especially suitable for clamping lightning-induced surges appearing on aircraft 28-volt DC power distribution busses feeding solid-state avionics. The suppressor clamps the high energy surges to levels easily tolerated by most solid-state power supply inputs without interruption of power or tripping of circuit breakers. Its surge current capability exceeds that of many spark-gap devices, and its response "turn on" time is virtually instantaneous.

We have a number of designed, tested and proven products to operate at determined surge conditions, or we can work with our customers to design a suppressor particular to their specific application.

The suppressors meet applicable requirements of RTCA DO-160, US MIL_STD-704, and most other aircraft power quality specifications.

