

# AirGuard SSSDC/OEM Series

RF surge protection for coaxial applications

- **MOV technology**
- **Extremely low let-through voltage**
- **Designed for specific OEM systems**
- **DC to 2.4GHz**
- **LED indication of DC power status**
- **DC continuity for tower top amplifiers and ODU's**



The **SSDC/OEM Series** of surge protection devices prevents surges and transient overvoltages conducted through coax cables. These surge protectors protect both the RF signal and the DC power on coax between the indoor unit and outdoor transceiver unit.

**All SSSDC/OEM** units have an LED DC status indication and utilizes all solid state technology that provides a 70% lower let-through voltage compared to gas tube technology.

**Typical applications for the SSSDC/OEM Series** include point-to-point and point-to-multipoint wireless systems, Local Multipoint Distribution System (LMDS), Wireless Local Loop (WLL), and Multichannel Multipoint Distribution Systems (MMDS) equipment.

**Receivers and transmitters** are particularly vulnerable to damage from the effects of lightning. Their remote locations (height above ground) and physical con-

struction make them vulnerable to lightning activity. The use of semiconductors and integrated circuits in transmitters and receivers has rendered them particularly prone to damage from these disturbances.

**Excellent performance levels** are achieved using Metal Oxide Varistors (MOV) to offer high surge current capability in a rugged, economic, compact enclosure to produce superior surge suppression.

**The AirGuard Series provides a wide range of connector** types including BNC, TNC, N-type, 7/16, and UHF to suit all application requirements. In addition, bulkhead mounting options are provided where insertion into a panel is preferable. The GT and RGT Series are available with a wide choice of voltages: 90V, 145V, 230V, 350V, 470V, 600V, 800V or 1,000V.

**Complete site protection** can be achieved by using MTL Surge Technologies' wide range of AC and DC power surge protection devices to prevent surges entering equipment via the power supply. The ZoneMaster range of protectors provide a high level of protection at the main panel, and when used in conjunction with the ZoneBarrier data modules, provide the highest level of site protection available.

## RF Coax Protection

# Specification

All figures typical at 77°F (25°C) unless otherwise stated

**Maximum discharge current**  
20kA (8/20μs)

**Maximum Clamping Voltage**  
See table

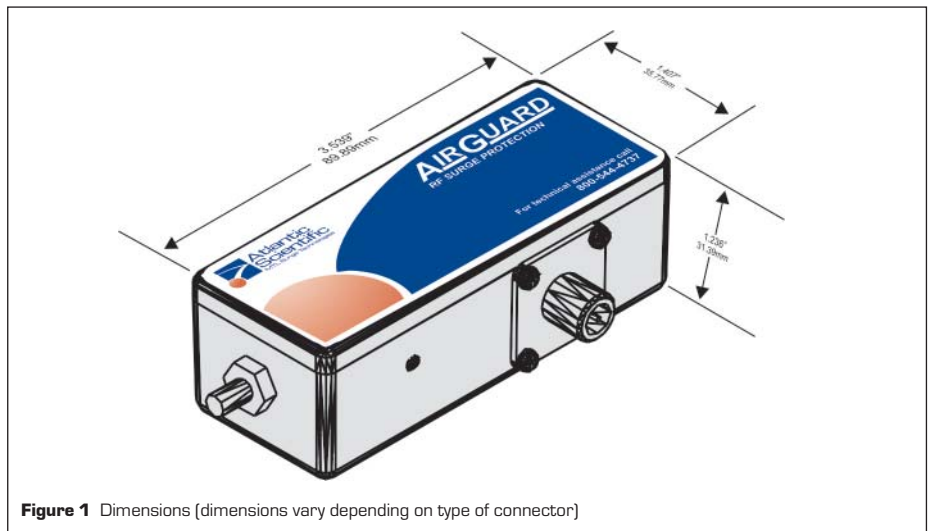
**Frequency Range**  
DC to 2.4GHz

**Peak Pulse Current (8/20μs)**  
40kA

**Impedance**  
50 or 75 Ω

**RF Power**  
18W maximum

Model	OEM System	Connector	Maximum Operating Frequency (GHz)	Clamping Voltage (V)	Maximum Current (A)	DC Voltage (V)
RF51081	GPS & Preamp	N-Type	2.4	<48	20,000	+18
RF51083	P-Com	N-Type	2.4	<170	20,000	+48
RF51084	NEC	N-Type	2.4	<170	20,000	-48
RF51085	Aperto	F-Type	2.4	<30	20,000	+18
RF51086	NEC	N-Type	2.4	<170	20,000	-48



**Figure 1** Dimensions (dimensions vary depending on type of connector)