

## AirGuard GT

The GT Series of surge protection devices prevent surges and transient overvoltages. The GT Series provides economic and robust protection in a versatile broadband package that avoids having to stock multiple frequency products. Ideal for a multi-disciplined wireless project, this series of surge protectors provides the right product at any site, particularly when space is at a premium.

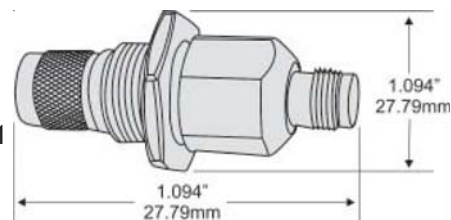
Typical applications for the GT Series include the protection of radio telemetry systems, mobile communications base stations and where high induced voltages may be present.

### Features

- Weatherproof
- Rugged Construction
- Economic Protection
- Versatile up to DC - 2.5GHz
- Allows DC/LF Injection
- Multiple strike capability

### Specifications

Max. discharge current: 20kA (8/20 $\mu$ s)  
 Max. power rating (VSWR): 1.25:1 or 1.20:1  
 Frequency range: DC to 2.5GHz  
 Peak pulse current (8/20 $\mu$ s): 40kA  
 Impedance: 50 or 75 $\Omega$   
 (Depends on Connector)



Dimensions vary depending on type of connector

Model	Mounting Connector	Frequency Range(GHz)	VSWR	Insertion Loss (dB)	Peak Pulse Current (8/20 $\mu$ s)	Impedance ( $\Omega$ )
AT51050*	BNC(f) Bulkhead to BNC(f)	DC - 2.5	1.25:1	.1	40kA	50
AT51051*	BNC(m) to BNC(f)	DC - 2.5	1.25:1	.1	40kA	50
AT51052*	TNC(f) Bulkhead to TNC(f)	DC - 2.5	1.25:1	.1	40kA	50
AT51053*	TNC(m) to TNC(f)	DC - 2.5	1.25:1	.1	40kA	50
AT51054*	N(f) Bulkhead to N(f)	DC - 2.5	1.20:1	.1	40kA	50
AT51055*	N(m) to N(f)	DC - 2.5	1.20:1	.1	40kA	50
AT51057*	SMA(m) to SMA(f)	DC - 2.5	1.20:1	.2	40kA	50
AT51058*	N(f) Bulkhead to SMA(f)	DC - 2.5	1.20:1	.2	40kA	50

\*Add alpha suffix to identify gas-tube voltage: A = 90V, B = 145V, C = 230V, D = 350V E = 470V, F = 600V, G = 800V, H = 1,000V

Parameter	Gas-Tube Voltage							
	A	B	C	D	E	F	G	H
Voltage Code								
Gas-Tube Voltage Rating	90	145	230	350	470	600	800	1000
Maximum RF Watts See notes 1, 2, & 3	37	96	241	558	1006	1640	2915	4555
kA Transient Current for 8/20 $\mu$ s pulse	40	40	40	40	40	40	30	20
V dynamic @ 5k V/ $\mu$ s	600	600	650	800	1200	1500	1900	2200
Let-through Energy in mJ See notes 1 & 4	0.3	0.3	0.35	0.7	2.2	4.4	9.0	14

### Brackets

Model	Connectors	Diameter
AT51077	BNC/TNC	.505"
AT51075	N	0.630"



Note 1: Data given for 50 $\Omega$  systems. For 75 $\Omega$  systems multiply by 0.67, for 90 $\Omega$  systems multiply by 0.55.

Note 2: For combined carrier applications the sum of all peak RF voltages plus any injection voltages should not exceed 60% of the Gas-Tube voltage rating. Peak RF volts = 1.4 x (RF power x Ohms) <sup>0.5</sup>.

Note 3: RF power is limited by the connector capability also.

Note 4: Let-through Energy based on the 6kV/3kA per ANSI C62.41.