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AirGuard WQWS

The WQWS Series (Wideband Quarter-Wave Tubeless Stub) of surge protectors prevent surges and transient overvoltages. The WQWS uses an innovative "tubeless" design to achieve W-I-D-E-B-A-N-D performance. This compact unit has a high transient current capability with extremely low Passive Intermodulation (PIM). Typical applications for the WQWS include the protection of cellular, PCS and even 3G frequencies. It is also ideal as a single stock item device that can be used in any system up to 2,200MHz with outstanding performance.

Features

- Multi-application
- Low passive intermodulation (PIM)
- Weatherproof
- 60kA - 100kA surge current rated
- No discrete components to fail
- .82 to .97GHz and 1.7 to 2.2GHz
- Nickel plated for corrosion resistance

Specifications

Max. discharge current: 60kA – 100kA (8/20 μ s)
 Max. power rating (VSWR): 1.15:1
 Frequency range: .82 to .97GHz & 1.7 to 2.2GHz
 Peak pulse current (8/20 μ s): N type – 60kA
 7/16 type – 100kA
 Impedance: 50 Ohms

Brackets

Model	Connectors	Diameter
AT51074	7/16 DIN	1.146"
AT51075	N	0.630"

Model	Mounting Connector	Second Connector	Impedance
AT51037	7/16 Female Bulkhead	7/16 Male	50 Ohms
AT51038	7/16 Female Bulkhead	7/16 Female	50 Ohms
AT51039	N Female	N Female	50 Ohms
AT51040	N Female	N Male	50 Ohms

Optimum Performance Frequencies

Frequency(GHz)	VSWR	Insertion Loss(dB)
0.82 - 2.2	1.01:1 - 1.15:1	0.05 - 1.10

AirGuard NQWS

The NQWS Series (Narrowband Quarterwave Tubeless Stub) of surge protectors prevent surges and transient overvoltages. The NQWS uses an innovative "tubeless" design to achieve the superior performance characteristics of a conventional quarterwave stub. This compact unit has a high transient current capability with extremely low Passive Intermodulation (PIM). Typical applications for the NQWS include the protection of radio telemetry systems, mobile communications base stations and where high induced voltages may be present

Model	Mounting Connector	Second Connector	VSWR	Insertion Loss (dB)	Impedance (Ohms)	Surge Current
AT51033	N Bulkhead Female	N Female	1.1:1 to 1.15:1	0.1 to 0.15	50	60kA
AT51034	N Bulkhead Female	N Male	1.1:1 to 1.15:1	0.1 to 0.15	50	60kA
AT51035	7/16 Bulkhead Female	7/16 Female	1.1:1 to 1.15:1	0.1 to 0.15	50	100kA
AT51036	7/16 Bulkhead Female	7/16 Female	1.1:1 to 1.15:1	0.1 to 0.15	50	100kA

Note: Select frequency code from table below. The AT51035 & AT51036 are available only in frequency codes A, B, C, F & I

Bandwidth Frequency

Code	A	B	C	E	F	G	I	H
Frequency	.411 - .194	.82 - .96	1.7 - 2.0	2.2 - 2.6	3.0 - 3.6	5.15 - 5.88	.82 - 2.2	2.4 - 6.0
Loss	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15
VSWR	1.1	1.1	1.1	1.1	1.1	1.1	1.15	1.15

