



AirGuard WQWS

Radio Telemetry Protection

Application: 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
- Nickel plated for corrosion resistance

Specifications

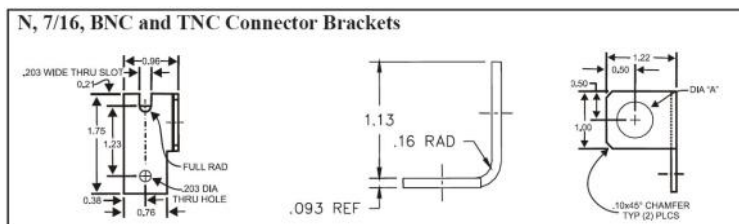
Max. Discharge Current: 60kA - 100kA (8/20 μ s)
Max. Power Rating (VSWR): 1.15:1
Frequency Range: 0.82 - 0.97GHz and 1.7 - 2.2GHz
Peak Pulse Current (8/20 μ s): N type - 60kA
 7/16 type - 100kA
Impedance: 50 Ohms

Optimum Performance Frequencies

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

Part Number	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		50 Ohms
AT51040	N Female		50 Ohms

Bracket Part Number	Connectors	Diameter
AT51074	7/16 DIN	1.146"
AT51075	N	0.630



AirGuard NQWS

Application: 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.



AT51034H, N F/M (.82-2.2GHz)

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

Note: Append alpha character from the table below to specify required frequency, e.g. AT51036A. The AT51035 & AT51036 are only available in frequency codes A, B, C, F, and I.

Bandwidth Frequency

Code	A	B	C	E	F	G	I	H
Frequency	0.411 - 0.194	0.82 - 0.96	1.7 - 2.0	2.2 - 2.6	3.0 - 3.6	5.15 - 5.88	0.82 - 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

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