

Lightning Protection



Products:

DEV 8601/xx - L-Band Lightning Protection Panel, 50 Ohm, N (f)

DEV 8602/xx - L-Band Lightning Protection Panel, 75 Ohm, N (f)

Features:

- /// Lightning Protection for **xx**: 4, 8 or 12 L-Band Signal Feeds
- /// Compact Rack mountable Panel
- /// 50 Ohm Version and 75 Ohm Version available
- /// N Connectors for Inputs and Outputs
- /// High Temperature Range and Ingress Protection Rating

Application Areas:

- /// Satellite Ground Stations
- /// Broadcasting Trucks

DEV 8601/xx / DEV 8602/xx*Front DEV 8602/12**Rear DEV 8602/12***The Situation**

Dangerous surge signals on coaxial lines may cause serious damage to signal processing equipment located behind satellite antennas which are exposed to weather conditions, where e.g. lightning may appear.

DEV worked out a Solution

To safeguard the equipment which is processing antenna signals, lightning protectors are to be installed between the antenna and the signal processing equipment.

The DEV 8601/xx as well as the DEV 8602/xx Lightning Protection Panels are capable to protect up to four, eight or twelve L-Band signal feeds.

The Technical Concept

The DEV 8601/xx and the DEV 8602/xx Lightning Protection Panels contain 4, 8 or 12 gas lightning protectors with N connectors on both sides which are mounted on a 2 RU panel. The panel is to be installed in the rack containing the signal processing equipment. The signals from the antennas are fed to the inputs of the panel; the outputs are connected to the equipment.

Technical Data

DEV 8601/xx / DEV 8602/xx Lightning Protection Panels

RF Specifications

Frequency range	650...2500 MHz	(DEV 8601/xx)
	DC...2000 MHz	(DEV 8602/xx)
Number of input / output ports (xx)	4	(DEV 8601/4, DEV 8602/4)
	8	(DEV 8601/8, DEV 8602/8)
	12	(DEV 8601/12, DEV 8602/12)
Impedance, connectors	50 Ohm, N (f)	(DEV 8601/xx)
	75 Ohm, N (f)	(DEV 8602/xx)
Return loss	>20 dB	(DEV 8601/xx)
	>14 dB, typical 16 dB	(DEV 8602/xx)
Insertion loss	<0,5 dB	(DEV 8601/xx)
	<0,2 dB	(DEV 8602/xx)
CW power	<50 W	(DEV 8601/xx)
	<100 W	(DEV 8602/xx)
Surge current handling capability	30 single/ 20 multiple kA (test pulse 8/20 μ s)	

General Specifications

Grounding bolt	thread M6 x 25 mm	
Housing	width: 19" (483 mm);	
	height: 2 RU (90 mm);	
	depth: 100 mm	(DEV 8601/xx)
	80 mm	(DEV 8602/xx)
Weight	~5 kg	
Operating temperature	-40...+85 °C (-40...+185 °F)	
Ingress protection rating	IP65	
Environmental conditions	ETS 300019 Part 1-3 Class 3.1	

Order Information

DEV 8601/4	4 Channel L-Band Lightning Protection Panel, 50 Ohm, N (f)
DEV 8601/8	8 Channel L-Band Lightning Protection Panel, 50 Ohm, N (f)
DEV 8601/12	12 Channel L-Band Lightning Protection Panel, 50 Ohm, N (f)
DEV 8602/4	4 Channel L-Band Lightning Protection Panel, 75 Ohm, N (f)
DEV 8602/8	8 Channel L-Band Lightning Protection Panel, 75 Ohm, N (f)
DEV 8602/12	12 Channel L-Band Lightning Protection Panel, 75 Ohm, N (f)

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