Coaxial Low-Pass Filter for the 1300 MHz Band

DESCRIPTION

- Passes all signals in or below the 1100 - 1300 MHz band.
- Rejects signals above this range.
- Absolute stop band from 2.5 GHz to 12.4 GHz
  - no degradation at harmonics (Zolotarev-characteristic).
- Attenuation in stop band better than 60 dB.
- Insertion loss in pass range less than 0.4 dB.
- Provided with brackets for panel mounting.

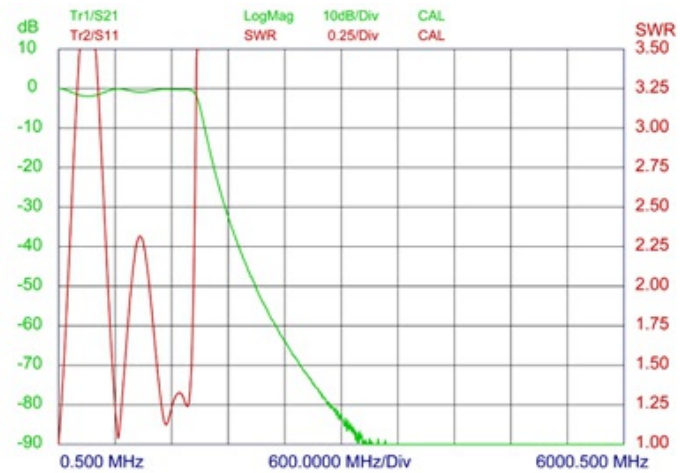
SPECIFICATIONS

Electrical	
Model	LPZ 1300
Frequency	Pass band: 1100 - 1300 MHz Stop band: 2.5 - 12.4 GHz
Max. Input Power	150 W
Peak Input Power	3.5 kW
Application	Low-pass filter for the 1300 MHz band
VSWR	< 1.5:1
Stop Band Attenuation	> 60 dB

Mechanical	
Connection(s)	N(f)
Dimensions	108 x 40 x 36 mm / 4.25 x 1.57 x 1.42 in.
Weight	Approx. 0.08 kg / 0.18 lb
Mounting	4 holes, 3.5 mm dia.

Environmental	
Operating Temperature Range	-30°C to +80°C

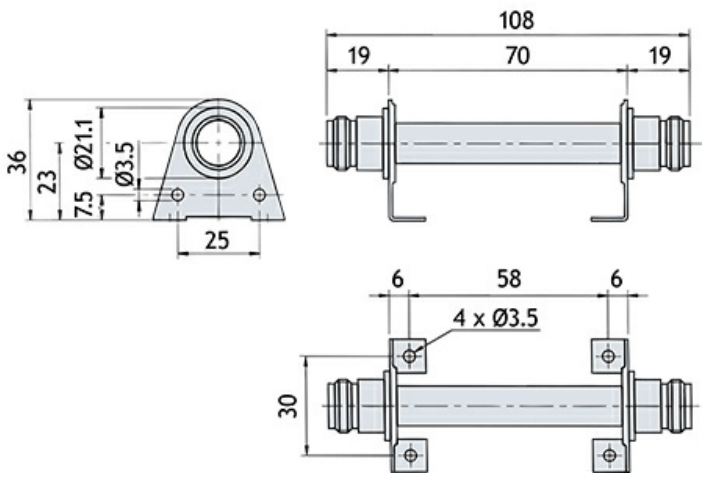
TYPICAL GAIN AND VSWR CURVES



ORDERING

Model	Product No.
LPZ 1300	200001292

MOUNTING DETAILS



The LPZ 1300 is used to prevent RFI (Radio Frequency Interference) caused by excessive harmonic generation from transmitters operating in the 1100 - 1300 MHz band. By rejection, the filter reduces the amplitude of the harmonics and prevents them from being radiated by the antenna.

The filter is normally used in connection with base station transmitters, but as it is mechanically very ruggedly designed, it is perfectly suited for mobile and marine applications as well.