

LPB Series - Datasheet

LAG (Low Noise Amplifier for GIS) Protection Board



DESCRIPTION

This amplifier technology allows to detect the broadband transmissions of small defects or impurities in the GIS. Thus, vulnerabilities can be detected early and damage can be avoided. The LPB is connected to the GIS system between the sensor and the LAG and prevents the destruction of the GMS-IV amplifier by excessive input power.

KEY FEATURES

- High voltage protection
- High-pass filter at 83 MHz
- Frequency Range (83 MHz – 2.2 GHz)
- Compact design

ELECTRICAL SPECIFICATIONS

ABSOLUTE MAXIMUM RATINGS

Storage temperature
-40 ... 85 °C

Stresses beyond those listed under “Absolute Maximum Ratings” may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

OPERATING CONDITIONS @ 25 °C

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
LPB output voltage at 128 V input voltage	-	-	1.6 -6	-	Vp+ Vp-
Insertion loss	-	0.8	1.5	2.1	dB
Frequency range	-	83	-	2200	MHz
Impedance	-	-	50	-	Ω
Operating temperature	T _A	0	-	70	°C

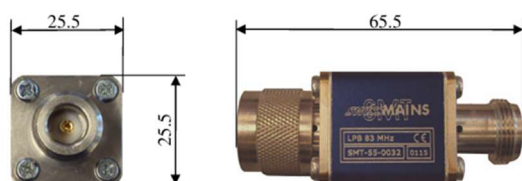
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MECHANICAL SPECIFICATIONS

DIMENSIONS



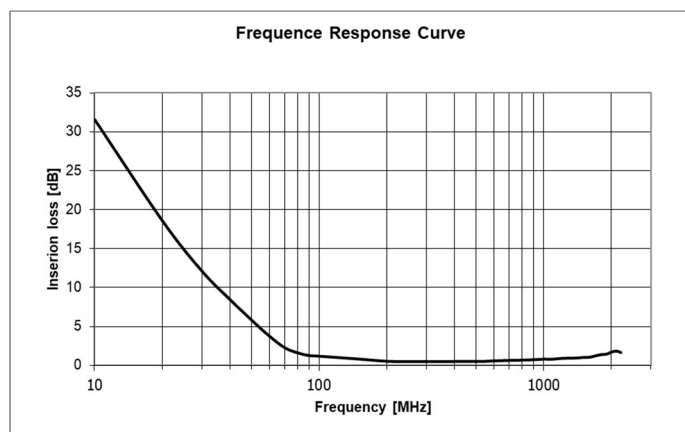
Length total	65.5 mm
Length housing	25 mm
Width / Height	25.5 mm
Weight	95 g

CONNECTIONS

RF IN
Type N male

RF OUT
Type N female

TYPICAL FREQUENCY CHARACTERISTICS



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