

PMG Series - Datasheet

Powered Multiplexer for GIS monitoring systems



DESCRIPTION

The PMG series is an RF Multiplexer with integrated bias tee power supplies and can be used in combination with our GMS-IV amplifiers or for general applications. The PMG series has RF inputs on the back, which are divided into two groups A and B. These inputs can be switched as follows on two outputs A and B:

- + Inputs A to Output A and B inputs on output B
- + All inputs to output A
- + All inputs to output B
- + Inputs A to Output B and B inputs on output A

Each input has its own bias tee power supply, which are protected with fuses.

KEY FEATURES

- Controllable via USB / serial

- 2 parallel channels

- 2 parallel channels

- Rack mountable

ELECTRICAL SPECIFICATIONS

ABSOLUTE MAXIMUM RATINGS

Power supply V_{AC}
90 ... 264 V

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
Power supply	V_{AC}	115	-	230	V
Bias-Tee supply voltage ¹	V_{Bias}	13	-	15.5	V
Bias-Tee supply current ²	I_{Bias}	-	-	350	mA
Insertion loss	-	>-39	-	2.5	dB
Frequency range	-	100	-	2200	MHz
Impedance	-	-	50	-	dBm
Operating temperature	T_A	0	-	70	°C

¹ Min at I_{Bias} 0 mA, Max at I_{Bias} 350 mA

² The maximum output current is limited by the fuse

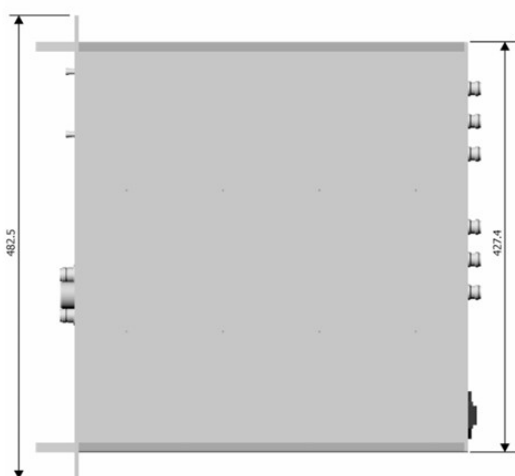
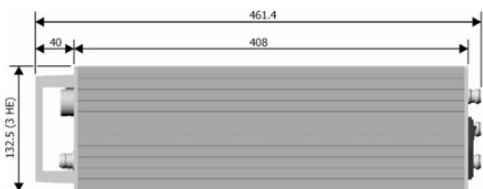
PMG Series - Datasheet

Powered Multiplexer for GIS monitoring systems



MECHANICAL SPECIFICATIONS

DIMENSIONS



Length total	461.4 mm
Width	482.5 mm
Height	132.5 mm (3 HE)
Weight	-

CONNECTIONS

RF IN
Type N female
Integrated bias-tee power supplies

RF OUT
Type N female

USB
USB Type B

Mains Plug
Appliance inlet
With integrated power switch and fuse

© SMT Swiss Mains GmbH, 2026. Information furnished by Swiss Mains is believed to be accurate and reliable, however, no responsibility is assumed by Swiss Mains for its use, nor for any infringements of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Swiss Mains.