

PSG Series - Datasheet

Power Supply for GIS



DESCRIPTION

The PSG series has 1-3 integrated bias tees power supplies and can be used in combination with our GMS-IV amplifiers or for general applications. The PSG has on the reverse RF inputs, which are powered with 15 VDC. On the front you have the appropriate RF outputs. Each input has its own bias tee power supply, which is protected with a fuse.

KEY FEATURES

- 1 – 3 channels
- Low insertion loss
- Built-in Bias-Tee for each channel
- Separate fuse for each channel
- Frequency Range (100 MHz – 2.2 GHz)

ELECTRICAL SPECIFICATIONS

ABSOLUTE MAXIMUM RATINGS

Power supply V_{AC}
110 ... 350 VAC

Storage temperature
-40 ... 85 °C

Operating frequency f
47 ... 63 Hz

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	V_{Bias}	-	15	-	V
Bias-Tee supply current ¹	I_{Bias}	-	-	500	mA
Insertion loss	-	0.6	0.8	1	dB
Frequency range	-	10	-	2200	MHz
Impedance	-	-	50	-	Ω
Operating temperature	T_A	0	-	70	°C

¹ The maximum output current is limited by the fuse

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MECHANICAL SPECIFICATIONS

DIMENSIONS



Length total	302 mm
Width	210 mm
Height (without / with Earth terminal)	76 / 104 mm
Weight (2 channel version)	2950 g

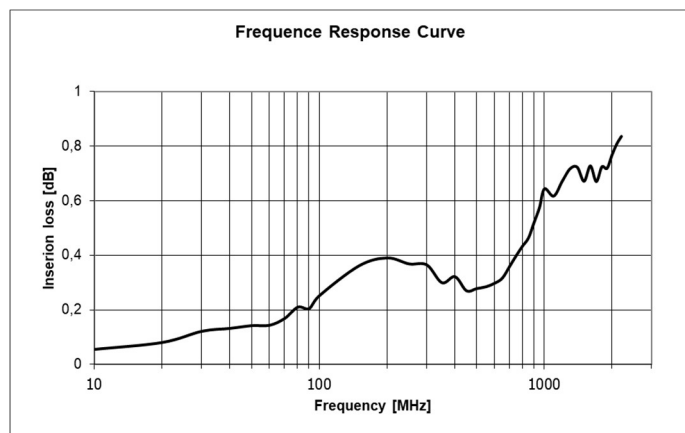
CONNECTIONS

RF IN
Type N female
Integrated bias-tee power supplies

RF OUT
Type N female

Mains plug
Appliance inlet

HF SPECIFICATIONS



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AVAILABLE FILTERS

Schaffner FN 700/-6/06 EMI three stage filter



Schaffner FN 9260B-2-06 mains filter



TYPE DESIGNATION

PSG-x-CH-xF-xx

1CH: 1 channel version

2CH: 2 channel version

3CH: 3 channel version

EF: EMI three stage filter

MF: Mains filter

ET: Earth terminal

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