

PSG-Series

Datasheet

Features

- Integrated EMI filter
- Low insertion loss <1dB
- Integrated bias tees for each channel
- Each channel is fused
- Ultra wide bandwidth
- Optional grounding clamp

Applications

- GIS monitoring systems combined with GMS IV Series Sensor Amplifiers



Description

The PSG Series have 1-3 integrated Bias-Tees and is used in combination with our GMS-IV Amplifiers or for other applications. At the backside are the RF-Inputs which are supplied with 15VDC. At the front side are the RF-Outputs. Every Channel is fused.

Electrical Specifications

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Units
Power supply	V_{AC}	110	350	VAC
Operating frequency	f	47	63	Hz
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	Condition	Min	Typ	Max	Units
Power Supply	V_{AC}	50 – 60 Hz	115		230	V
Bias Tee Supply Voltage	V_{BIAS}			15		V
Bias Tee Supply Current	I_{BIAS}	Note 1			500	mA
Insertion loss			0.6	0.8	1	dB
Frequency range			10		4200	MHz
Impedance				50		Ω
Operating Temperature	T_A		0		70	°C

Note 1: The maximum output current is limited by the fuse.

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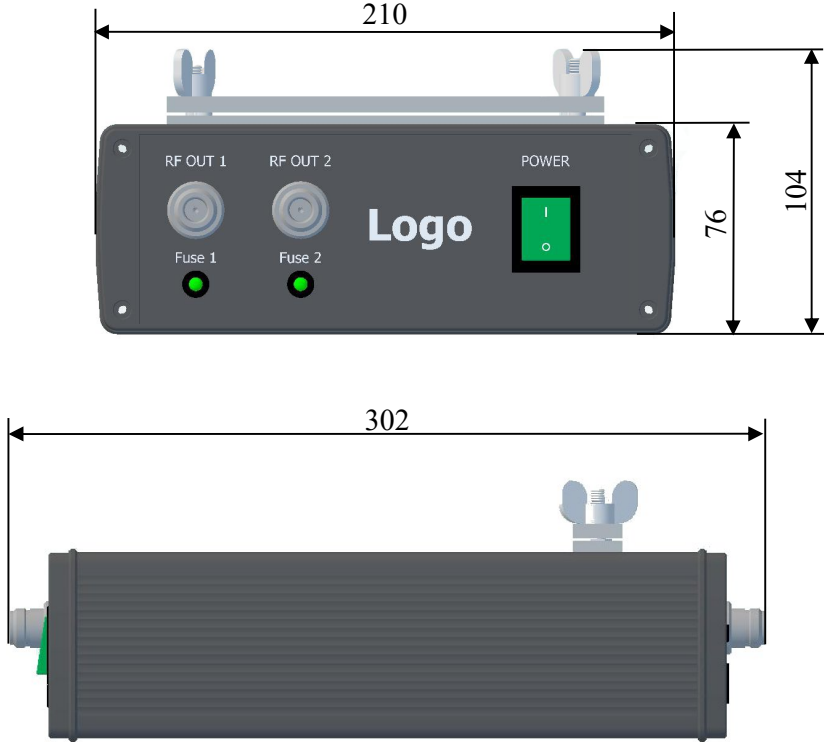
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Available Filters

Connection	Comment
Schaffner FN 700Z-6/06 EMI three stage	
Schaffner FN 9260B-2-06 mains filter	

Mechanical Specification

Dimensions



Dimensions in mm

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Connections

Connection	Connector	Comment
RF Inputs	Type N female	Integrated bias-tee power supplies
RF Outputs	Type N female	
Mains Plug	Appliance inlet	

Ordering Information

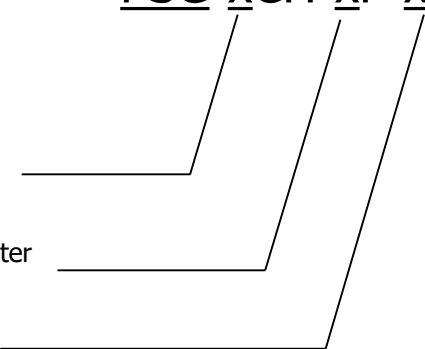
Part	Channels	Stocked	Ordering No.
PSG-1CH-EF-ET	1	no	SMT-55-0076
PSG-1CH-EF	1	no	SMT-55-0077
PSG-1CH-MF-ET	1	no	SMT-55-0055
PSG-1CH-MF	1	no	SMT-55-0056
PSG-2CH-EF-ET	2	no	SMT-55-0039
PSG-2CH-EF	2	no	SMT-55-0043
PSG-2CH-MF-ET	2	no	SMT-55-0044
PSG-2CH-MF	2	no	SMT-55-0045
PSG-3CH-MF-ET	3	no	SMT-55-0046
PSG-3CH-MF	3	no	SMT-55-0047

PSG-xCH-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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