#### **Features**

- up to 2 x 12 input channels
- two output channels
- integrated bias tees for each channel
- frequency range 10 MHz to 4.2 GHz
- low insertion loss < 2.5 dB
- remote control over USB

## **Applications**

- GIS monitoring systems combined with GMS IV Series Sensor Amplifiers
- General purpose RF-Multiplexing



# **Description**

The RF inputs on the backside are arranged in two Groups A and B. These inputs may be switched to the outputs as listed below:

- Inputs A to output A and inputs B to output B
- All inputs to output A or all inputs to output B
- Inputs A to output B and inputs B to output A

Each input is equipped with a bias tee supply and protected by a fuse. The fuse box on the front side makes it easy the change a damaged fuse. A turning knob with integrated pushbutton relieves the selection of the input channels and the navigation thru the menu. Also it is possible to remote control the multiplexer over an USB Interface with simple commands.

#### **Electrical Specifications**

#### **Absolute Maximum Ratings**

Paramter	Symbol	Min	Max	Units
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	Condition	Min	Тур	Max	Units
Power Supply	V <sub>AC</sub>	50 – 60 Hz	115		230	V
Bias Tee Supply Voltage	$V_{BIAS}$	$I_{Bias} = 0 \text{ mA}$			15.5	V
		$I_{Bias} = 350 \text{ mA}$	13			
Bias Tee Supply Current	$I_{Bias}$	Note 1			350	mA
Insertion loss					2.5	dB
Frequency range			10		4200	MHz
Impedance				50		Ω
Operating Temperature	T <sub>A</sub>		0		70	°C

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



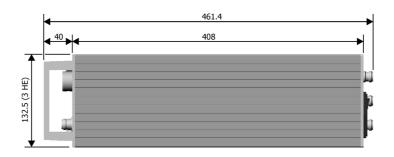
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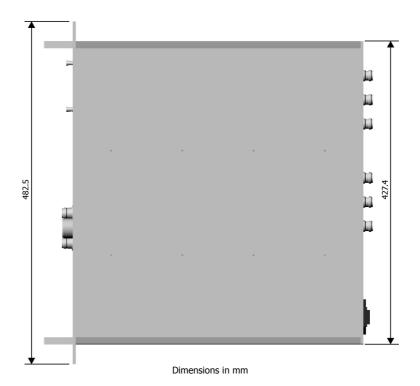
# **PMG-Series**

#### **Datasheet**

# **Mechanical Specification**

# **Dimensions**





## **Connections**

Connection	Connector	Comment
RF Inputs	Type N female	Integrated bias-tee power supplies
RF Outputs	Type N female	
USB	USB Type B	
Mains Plug	Appliance inlet	With integrated power switch and fuse



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# **PMG-Series**

#### **Datasheet**

Powered Multiplexer for GIS monitoring systems

## **Ordering Information**

Part	Inputs*	Stocked	Ordering No.
PMG-2-12	2 x 12	no	SMT-55-0031
PMG-2-9	2 x 9	no	SMT-55-0028
PMG-2-6	2 x 6	no	SMT-55-0030
PMG-2-3	2 x 3	no	SMT-55-0029

\*other number of input channels on request WWW.SWISSMains.COM

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