

# Preamplifier on batteries

## 80 Hz – 3 GHz

This broadband preamplifier is especially meant to amplify signals from current probes, antennas or other sensors in a rough electromagnetic environment. The device is totally stand-alone thanks to its battery; therefore it can be used without any additional cabling. The very wide frequency range, especially in low frequency, makes this amplifier well adapted to EMC measurements. Special care has been taken concerning the shielding effectiveness of the device allowing measurement in harsh electromagnetic environments such as a NEMP electromagnetic field of 500 kV/m. The amplifier module is delivered with a battery charger. Two versions are available: with 20 dB and with 40 dB gain.



### TYPICAL SPECIFICATIONS

Type	PRA3G20D	PRA3G40D
Bandwidth	80 Hz – 3 GHz ( $\pm 1.5$ dB)	
Typical gain	20 dB	40 dB
Output power @1 dB compression (2 GHz)	+ 9.9 dBm	
Noise figure	3.3 dB	4 dB
Input VSWR	1.2 typ.	
Absolute maximum input power	20 dBm	
Input ESD protection	according to IEC 61000-4-2 (15 kV)	
Immunity to external electric fields	> 500 kV/m (pulse according to MIL-Std 461 RS105 E/F/G)	
Connectors	SMA	
Impedance	50 ohm	
Battery life	27 hours	17 hours
Dimensions	99 x 64 x 41 mm (L x W x H)	
Weight	350 g	

Sales Partner:



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