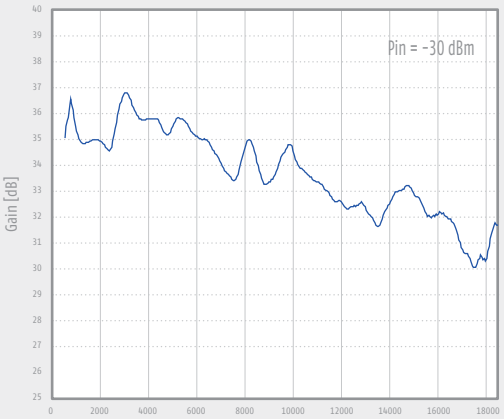
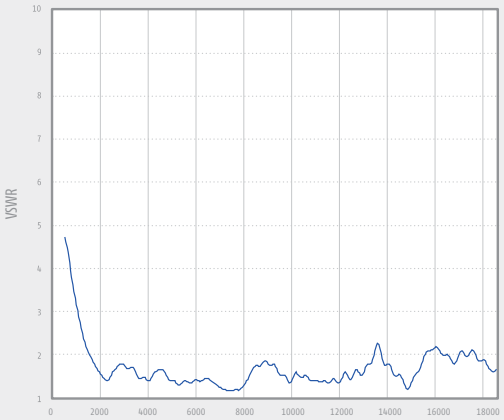
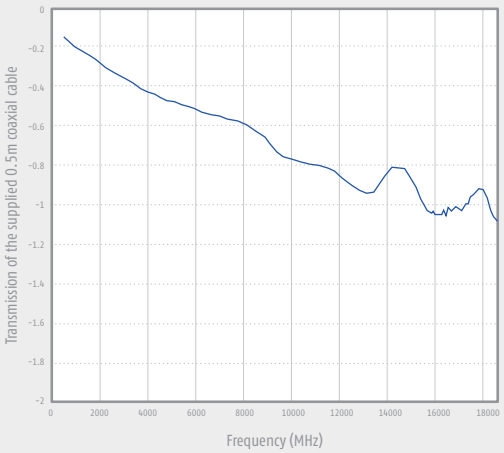
FRANKONIA
EMC Test-Systems GmbH

Datasheet
FPA-18







Description

Low noise low power wideband amplifier for increasing sensitivity at field strength measurements and for general attenuation measurements up to 18 GHz. A power supply with 12 V / 300 mA DC (e.g. optional AC/DC adap- tor, laboratory power supply, recharge- able battery) is required for operation. In- and output of the broadband amplifier are sensitive to electrostatic dis- charge. Therefore some precaution (discharging coaxial cables and persons) is required before touching the amplifier. The amplifier input comes with an SMA- female connector. A coaxial microwave cable of 0.5 m length is sup- plied to connect the antenna with the amplifier. The cable is equipped with N-male and SMA-male connectors.

Usually the amplifier should be installed very close to the antenna. The amplifier housing is equipped with rubber pads for placement on horizontal sur- faces. Further there are 22 mm holes in the housing to accept the mounting tube of Frankonia antennas. The antenna mounting tube is usually oriented horizontally with the N-female output of the amplifier facing to ground. This avoids undesired bending of the coaxial cable.

Technical specifications	
Nominal Frequency range	1 GHz - 18 GHz
Usable Frequency range	0.5 GHz - 20 GHz
Connectors	50 Ω N / SMA
Fixation	Ø 22 mm tube
Gain	typ. 33 dB ± 2.5 dB
Gain min.	> 28 dB
Max. input power	-10 dBm (97 dBµV)
SWR typ.	< 2
Noise figure	2 dB
Supply voltage	12V - 15 V / DC
Current consumption	250 - 300 mA
Power supply via female banana sockets	4mm
Weight:	600 g
Dimensions (W x L x D) in mm	142 x 90 x 48

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