

Wideband *RF* Amplifier

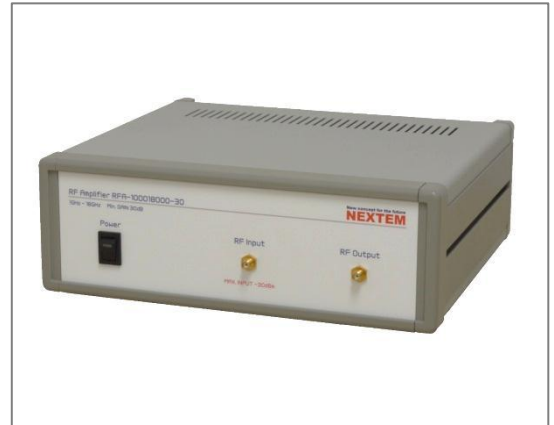
# RFA-100018000-30

There are more demands to measure electromagnetic interference at higher frequency than 1GHz.

RFA-100018000-30 Preamplifier is designed for amplifying small RF signals, generally used for EMI measurements in the frequency range greater than 1GHz.

RFA-100018000-30 has very wide band frequency range (1GHz – 18GHz) with middle gain amplification. Thanks to the low noise figure, signals that were previously hidden below the noise floor of the EMI receiver can now be seen and measured.

It uses built-in power supply so that the user can simply connect the AC power cable to the unit.

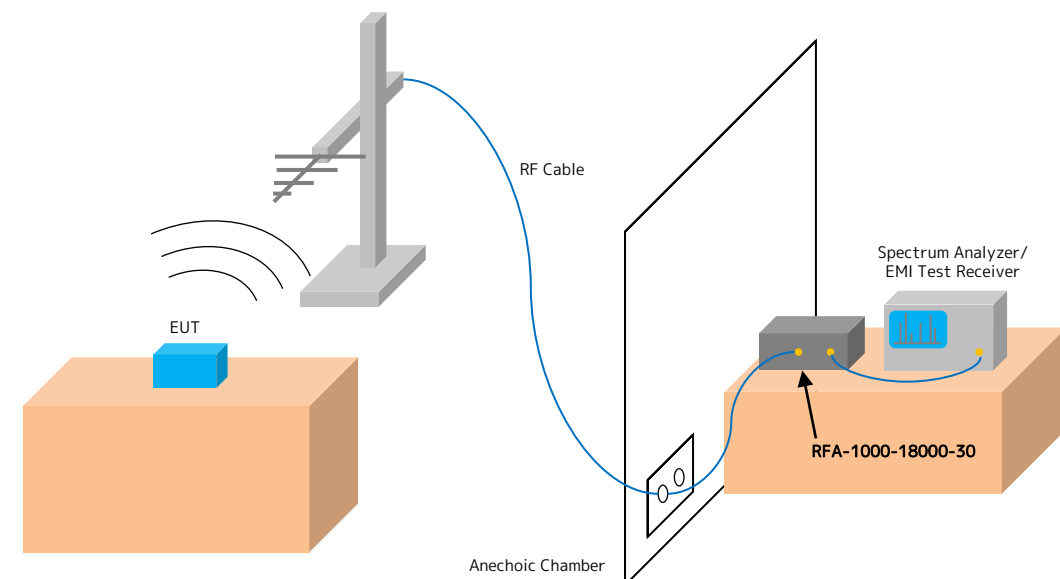


## Main Features


- Suitable for EMI measurements
- Typical 33dB gain from 1GHz to 18GHz
- Low noise figure for small signal amplification

## Applications

Typical setup for EMI measurement



### Typical deliverables

RFA-100018000-30	Accessories
	AC main power cable x1 Calibration certificate x1

### Specifications

Frequency Range	1GHz - 18GHz
Gain	33dB (Typical), 30dB (Minimum)
Gain Flatness	$\pm 2.5$ dB (Typical), $\pm 3$ dB (Maximum)
Impedance	50 Ohm
Maximum RF input power	-30dBm (inserting an external step attenuator is recommended to avoid damage and saturation)
Maximum Power Output (1dB comp.)	+3dBm
Noise Figure	3.5dB (Typical)
Power Supply	90 - 230VAC
Connector Type	Type SMA (female)
External Dimensions	W260 x D230 x H96 (mm)

### Typical gain vs frequency characteristics

