

BROADBAND ANTENNAS

RF200/RF230

High performance EMC antennas to cover the range 30MHz - 4GHz

- ⇒ One antenna covers complete band C and D (30MHz - 1GHz)
- ⇒ Compact antenna for 700MHz - 4GHz
- ⇒ Supplied with calibration data
- ⇒ Excellent sensitivity, ideal for EMC testing
- ⇒ Vertical and horizontal polarisation



The RFxxx range are specifically designed for general use as EMC emissions measurement antennas. They combine excellent broadband characteristics with high sensitivity and sturdy construction. Although primarily used with the Laplace range of analysers and receivers, they can be used with any other receiver and are supplied with full calibration data so that antenna factors can be entered into any third party system.

In order to achieve optimum performance consistency, the RF200 is designed to work with the SA1020 pre-amplifier, located at the head of the support tripod. This improves sensitivity and ensures that cable configuration does not affect results. The RF200 is supplied complete with rigid adjustable stand and the RF230 is complete with an all plastic miniature tripod.

COMPREHENSIVE The RF200 is designed to cover the whole range from 30MHz to 1GHz in one sweep. No need to change antenna part way through the scan.

CALIBRATION The RF2xxx design has been fully calibrated on the 10m OATS site at NPL. This data is included with each antenna. For emissions measurement, the RF200 is used in conjunction with the SA1020 pre-amplifier. This 'head' amplifier improves sensitivity and decouples the output lead from the antenna, avoiding spurious cable influences on the results

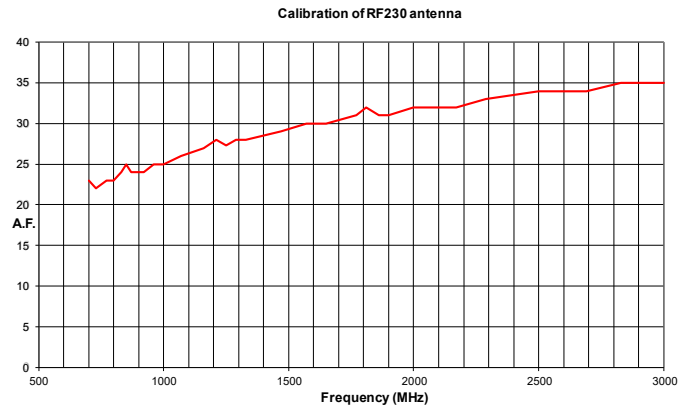
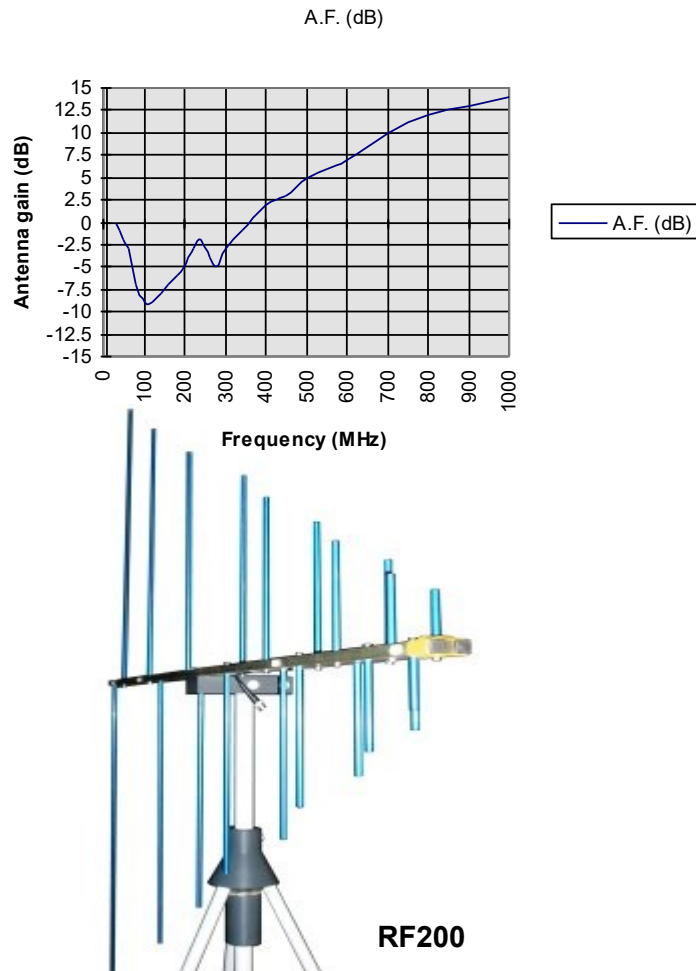
LAPLACE INSTRUMENTS LTD
Tudor House, Grammar School Road,
North Walsham, Norfolk, NR28 9JH UK
Tel: 016 92 40 20 70
E: tech@laplace.co.uk



Broadband Antennas - Specifications

RF200 Antenna factor, linear frequency scaling.

Note. Antenna factor includes SA1020 Pre-amplifier and 5 metres co-ax cable.



RF200

Frequency range	30MHz–1GHz
Antenna factor	See above. Data issued with each antenna
Generic Calibration	Measured at the NPL 10metre EMC test site at Teddington, London.
Connector	BNC
Nominal impedance	50ohm
RF Output power	100W
Ancillaries	SA1020 pre-amplifier.
Antenna type	Modified log-periodic
Size Length:	1.7m
Across elements:	1.6m
Construction:	Tubular Aluminium main beam Anodised aluminium elements Adjustable height: 1 m to 2.1m Tubular fibreglass/epoxy with PVC/nylon mountings
Stand	Antenna.Stand. 5m BNC—BNC output cable. Element assembly tool.
Included	User manual with assembly instructions Calibration data

RF230

Frequency range	700MHz—4GHz
Antenna factor	See above, Data issued with each antenna
Generic Calibration	Individually calibrated at test laboratory
Connector	SMA
Nominal impedance	50ohm
RF Output power	100W
Ancillaries	Carry case
Antenna type	Log-periodic
Size Length:	34cm x 20cm
Construction:	PCB with outer cover
Stand	Miniature tripod
Included	Antenna Hard carry case Calibration data. 5m SMA—BNC lead Tripod

LAPLACE INSTRUMENTS LTD

Tudor House, Grammar School Road,
North Walsham, Norfolk, NR28 9JH UK
Tel: 016 92 40 20 70
E: tech@laplace.co.uk

