

**A class Solid State
High VSWR operation**

Application : Radiated EMC

Designed and manufactured in Europe, the AP32 TU220 power amplifier operates in a symmetric mode with high linearity capability.

Solid state power modules are combined with high performance proprietary devices.

PRANA back ground into high power and broadband EMC products in last 10 years brings products to high reliability.



A high linear power is available and allows a high field output level with typical broadband antennas.

PRANA EMC amplifiers are designed to withstand excessive VSWR of typical EMC field generation environment.

The AP32 TU220 amplifier is compatible with any automatic test environment thanks to additional measurement and communication features.

The up to date and modern concept of the AP32 TU220 amplifier warrants the user of a permanent internal signal levels monitoring and allows local or remote full diagnostic capability.

Output characteristics

Nominal power	200 W
Single Instantaneous range	1000 – 2000 MHz
Power at 3 dB compression	200 W min.
Power at 1 dB compression max.	160 W min.
Gain	55 dB typ., 53 dB min.
Linear power gain flatness	.± 3 dB max.
Nominal output load	50 Ohms
Harmonic distortion at 1dB compression	H2 ≤ -20 dBc H3 ≤ -20 dBc
Spurious	< -60 dBc
Noise figure	≤ 15 dB

Input characteristics

Input level for nominal output power	0 dBm typ.
Input impedance	50 Ohms
Input VSWR	2:1 max.
Maximum input level	+10dBm

External interface

RF Input connector (1) (2)	Coaxial N fem.
RF output connector (1) (2)	Coaxial N fem.
Incident power sample connector (1) (2)	Coaxial N fem. (Option 001)
Reflected RF power sample connector (1) (2)	Coaxial N fem. (Option 001)
Communication IEEE 488 GPIB	Option 002
Digital display	Yes
LED control indicator	Fault, Controller Ok
Forward and direct power display	Option 003
Manual controls	Power On/Off – menu key functions

Environment and Protections

Ambient temperature range in operation	0°C / +35°C
Storage ambient temperature range	-20°C / +70°C
Cooling	Air, 120 l/sec
Protections	Infinite VSWR, Temperature, Power Supply, Bias Voltage

Electrical characteristics

Supply voltage (3)	230 VAC, +/- 10% 50-60Hz Single phase
Nominal current	5.0 A
Power in	< 1200 VA

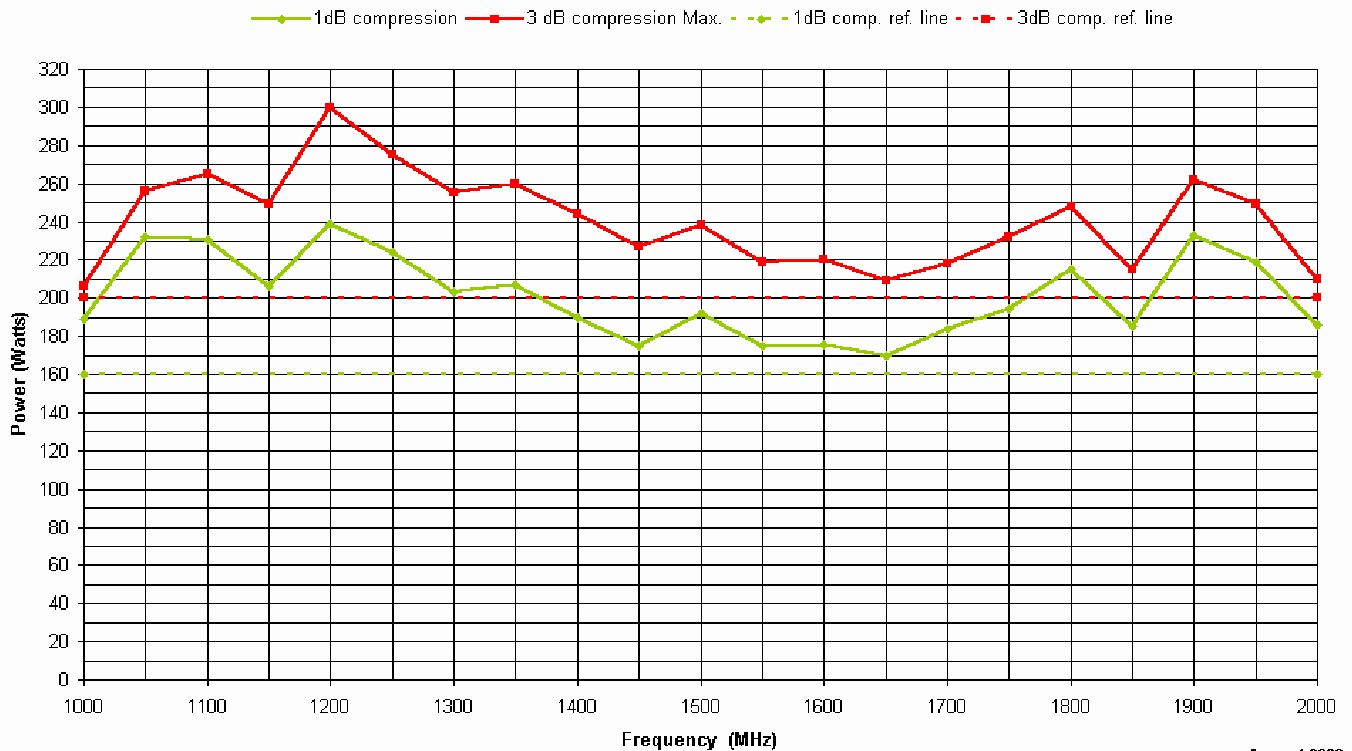
Mechanical outline

Packaging	19" RACK
High (standard)	267 mm (6U)
Width	450 mm
Depth	630 mm
Weight	80 kg

- (1) Front panel standard.
 (2) Other type on request.
 (3) Other voltage or frequency on request Front panel standard.

Power graph

AP32 TU220 POWER AMPLIFIER - 200W / 1GHz - 2GHz - Typical Power



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