

A class Solid State
High VSWR operation

Application : Radiated and Conducted EMC



Designed and manufactured in Europe, the AP32DP220 power amplifier operates in a symmetric mode with high linearity capability.

Its very wide bandwidth allows a full Bulk Current Injection test with no band switching.

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 at low frequencies 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 or current injection load mismatch.

The AP32DP220 amplifier is compatible with any automatic test environment thanks to additional measurement and communication features.

The up to date and modern concept of the AP32DP220 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	10kHz – 250MHz
Power at 3 dB compression	250 W min. up to 250MHz
Power at 1 dB compression max.	200 W min. up to 250MHz
Gain	53 dB typ., 48 dB min.
Linear power gain flatness	± 1dB typ., ± 2.5 dB max.
Nominal output load	50 Ohms
Reflected Power on load mismatch	300 W reverse power without power protection
Harmonic distortion at 1dB compression	H2 <-25 dBc, -30 dBc typ. H3 <-20 dBc, -25 dBc typ.
Spurious	< -50dBc
Noise figure for F>1MHz	< 20dB typ., 25dB max.

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 (2) (3)	Coaxial N fem. (option 001)
Reflected RF power sample connector (2) (3)	Coaxial N fem. (option 001)
Communication IEEE 488 GPIB	(Option 002)
Gain adjustment range (Manual or IEEE488)	30dB 0.5dB step (Option 007-002)
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, 60 l/sec max.
Protections	Temperature, VSWR (Option 001), Power Supply, Combiner, Bias.
EMC	CE Certified

Electrical characteristics

Supply voltage (4)	90-253 VAC, 47-63Hz
Nominal current	12,5 A at 100 V - 5.5 A at 230 V
Power in	< 1250 VA

Mechanical outline

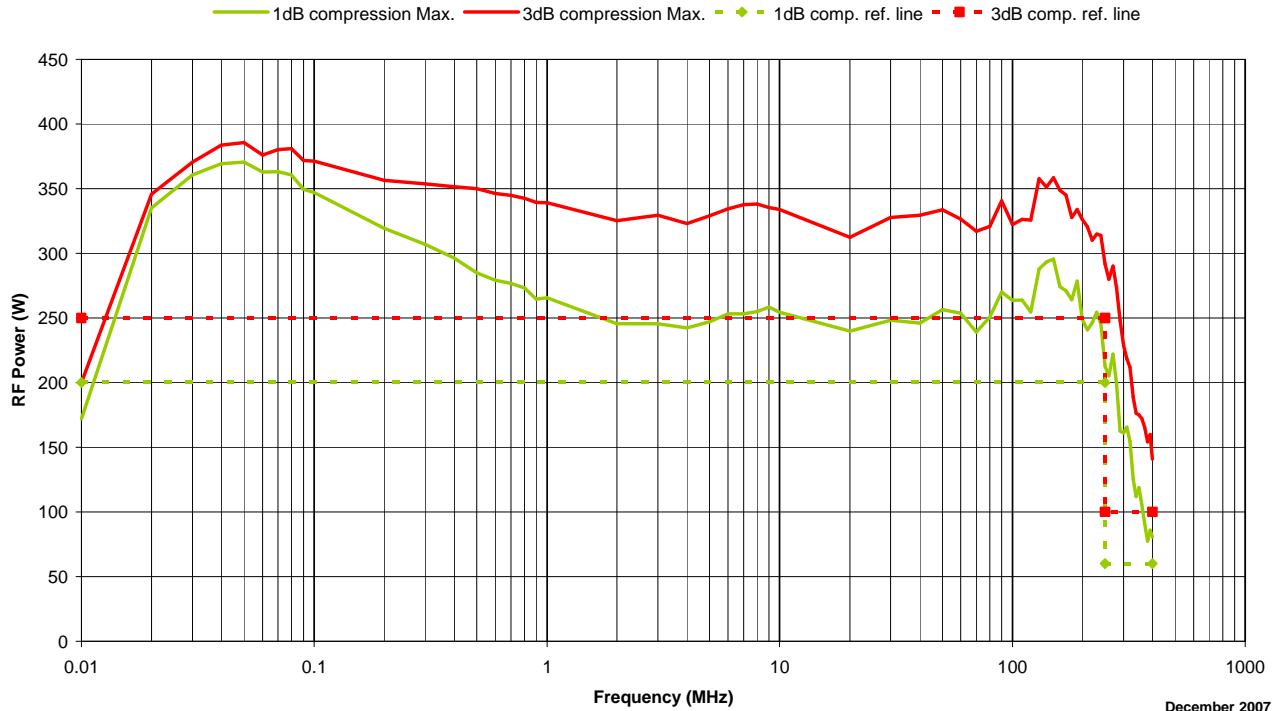
Packaging	19" Rack
High (standard)	178 m (4U)
Width	450 mm
Depth	630 mm
Weight	35 kg

- (1) Front panel Standard,
- (2) Other type on request,
- (3) Rear panel only,
- (4) 1 phase + Neutral + Protective ground.

Power graph



AP32DP220 POWER AMPLIFIER - 200W / 0.01- 250MHz - Typical Power



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