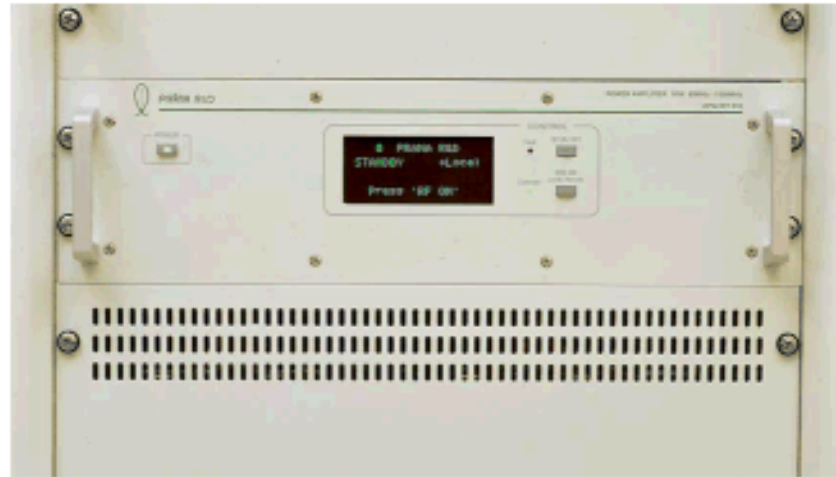


A class Solid State  
High VSWR operation

Application : Radiated EMC



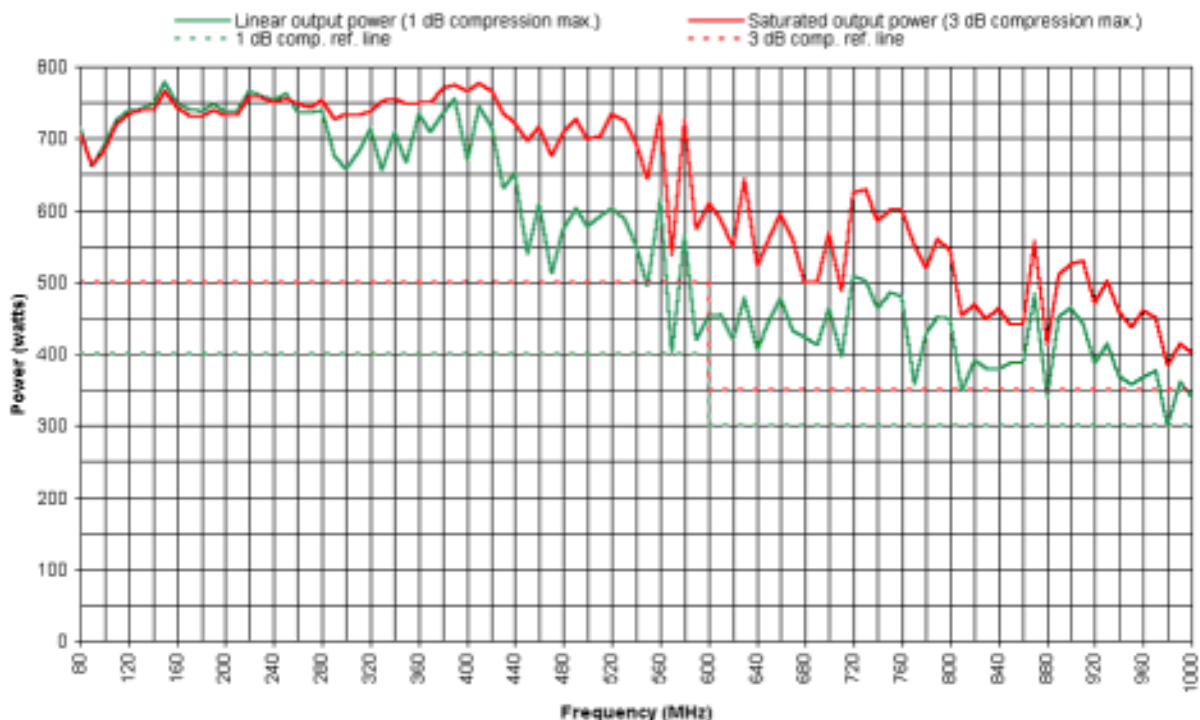
The AP32 MT235 power amplifier operates in a symmetric mode with high linearity capability. Solid state power modules are combined with high performance proprietary devices.

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 MT235 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 MT235 amplifier warrants the user of a permanent internal signal levels monitoring and allows local or remote full diagnostic capability.

AP32 MT235 POWER AMPLIFIER - 80MHz - 1000MHz - Typical Power



November 2005

### Output characteristics

Nominal power	400 W
Single Instantaneous range	80 – 1000 MHz
Power at 3 dB compression	500 W min. up to 600 MHz / 350 W min. up to 1 GHz
Power at 1 dB compression max.	400 W min. up to 600 MHz / 300 W min. up to 1 GHz
Gain	56 dB typ., 53 dB min.
Linear power gain flatness	± 3 dB typ., ± 3.5 dB max.
Nominal output load	50 Ohms
Reflected power on load mismatch	450 W reverse power without power reduction feed back loop
Harmonic distortion at 1dB compression or nominal power	H2 <-25 dBc, -30 dBc typ. H3 <-20 dBc, -25 dBc typ.
Spurious	< -60 dBc
Noise figure	< 20 dB typ., 25 dB max.

### Input characteristics

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

### External interface

RF input connector (1)	Coaxial N fem.
RF output connector (1)	Coaxial 7/16 fem.
Incident power sample connector (1)	Coaxial N fem.
Reflected RF power sample connector (1)	Coaxial N fem.
Interlock	Yes
Communication IEEE 488 GPIB	Yes
Digital display	Yes
LED control indicator	Fault, Controller Ok
Forward and direct power display	Yes
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, 240 l/sec
Protections	Infinite VSWR, Temperature, Power Supply, Bias Voltage
EMC	CE certified

### Electrical characteristics

Supply voltage (2)	230/400 VAC, +/- 10% 50-60Hz 3 phases
Nominal current	< 12 A phase 1 and 2
Power in	< 5600 VA

### Mechanical outline

Packaging	19" cabinet on wheels
High (standard)	1,32 m (24U)
Width	600 mm
Depth	840 mm
Weight	240 kg

- (1) Rear panel standard.  
(2) 3 phases + Neutral + Protective ground.