

A class Solid State
High VSWR operation

Application : Radiated EMC



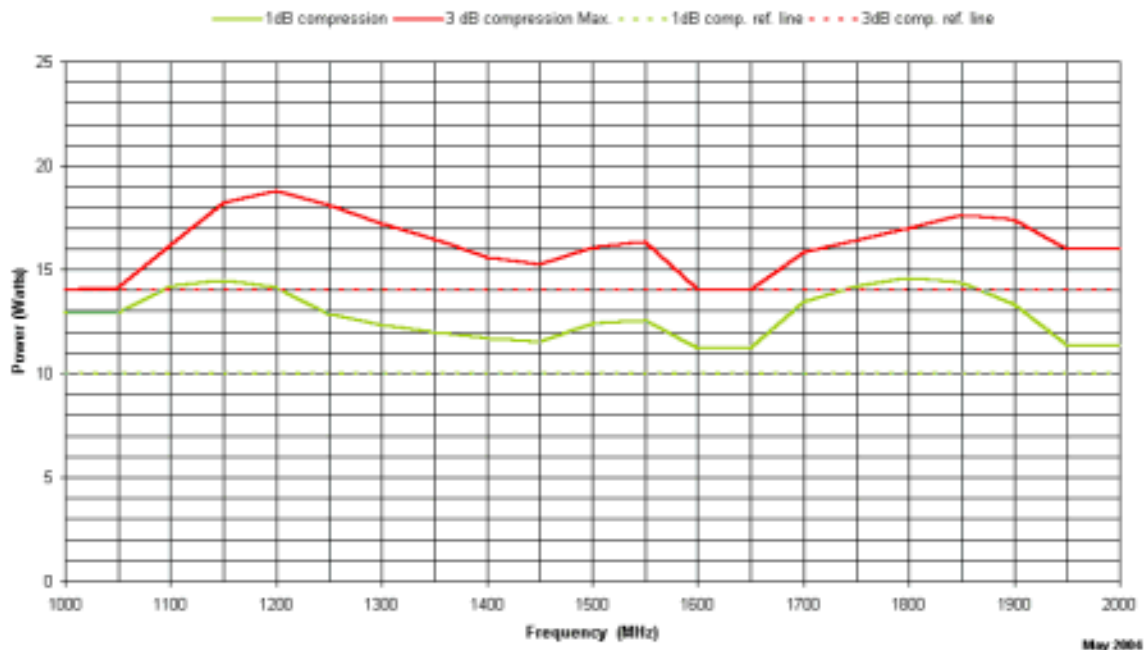
The AP32 TU115 power amplifier operates in a symmetric mode with high linearity capability. Solid state power modules are combined with high performance proprietary devices.

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 TU115 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 TU115 amplifier warrants the user of a permanent internal signal levels monitoring and allows local or remote full diagnostic capability.



Output characteristics

Nominal power	15 W
Single Instantaneous range	1000 – 2000 MHz
Power at 3 dB compression (1)	14 W min.
Power at 1 dB compression max. (1)	10 W min.
Gain	40 dB typ., 37 dB min.
Linear power gain flatness	± 2 dB typ., ± 2.5 dB max.
Nominal output load	50 Ohms
Reflected power on load mismatch	100 % reverse power without power protection
Harmonic distortion at 1dB compression	H2 <-20 dBc H3 <-20 dBc
Spurious	< -60dBc
Noise figure	< 15dB typ.

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 (2)	Coaxial N fem.
RF output connector (2)	Coaxial N fem.
Incident power sampling connector (3)	Coaxial N fem. (Option 001)
Reflected RF power sampling connector (3)	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	Yes (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, 15 l/sec max.
Protections	Infinite VSWR, Temperature, Power Supply, Bias Voltage

Electrical characteristics

Supply voltage (4)	90-250 VAC, 47-63 Hz
Nominal current	1.4 A at 100 V – 0.6 A at 230 V
Power in	< 150 VA

Mechanical outline

Packaging	19" Rack
High (standard)	89 mm (2U)
Width	450 mm
Depth	470 mm
Weight	15 kg

- (1) Without Option 001 (Internal coupler).
- (2) Front panel standard / Rear panel on request.
- (3) Rear panel only.
- (4) Other voltage or frequency on request.