

A class Solid State
High VSWR operation

Application : Radiated and Conducted EMC

Designed and manufactured in Europe, the AP32DT214 power amplifier operates in a symmetric mode with high linearity capability. Solid state power modules are combined with high performance proprietary devices.

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 20 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 AP32DT214 amplifier is compatible with any automatic test environment thanks to additional measurement and communication features.

The up to date and modern concept of the AP32DT214 amplifier warrants the user of a permanent internal signal levels monitoring and allows local or remote full diagnostic capability.



Output characteristics

Nominal power	140 W
Single Instantaneous range	10kHz – 1000MHz
Power at 3 dB compression	140 W min. up to 400MHz / 60W min. up to 1000MHz
Power at 1 dB compression	120 W min. up to 400MHz / 50W min. up to 1000MHz
Gain	52 dB typ.
Linear power gain flatness	± 4 dB typ. / ± 5 dB max.
Nominal output load	50 Ohms
Reflected Power on load mismatch	200W reverse power without power protection
Harmonic distortion at 1dB comp. or nominal power	H2 <-25 dBc / -30 dBc typ. H3 <-20 dBc / -25 dBc typ.
Spurious	< -50dBc
Noise figure for F>100MHz	< 25dB typ. / 30dB 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)	Type N fem.
RF output connector (1)	Type N fem.
Incident and reflected RF power sample connector (2)	Type N fem. (option 001)
Safety interlock	Yes
Communication IEEE 488 GPIB	Yes
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, 120 l/sec max.
Protections	Infinite VSWR, Temperature, Power Supply, Bias Voltage
EMC	 Certified

Electrical characteristics

Supply voltage	90-250 VAC, 47-63Hz, single phase
Nominal current	15.5A/100V - 6.7A/230V
Power in	< 1550 VA

Mechanical outline

Packaging	19" Rack
High (standard)	267 mm (6U)
Width	450 mm
Depth	630 mm
Weight	53 kg

- (1) Front panel Standard,
(2) Rear panel only.

Power graph

