

Prana DT 150:

- Class A solid state
- Broadband (instantaneous single band): 10 kHz – 1000 MHz
- Typical output power : 150 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 120 W and H < -20 dBc up to 400 MHz
 - P1dB > 50 W and H < -20 dBc from 400 MHz to 1000 MHz
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Reliable, efficient and robust
- 19" Rack
- 3 years standard warranty

Maintenance:

- Amplifier designed for minimal maintenance
 - ⇒ Easy access to all parts
 - ⇒ Modular design
 - ⇒ Repairs with minimum adjustments
- Rapid diagnostic
- Minimal downtime
- Contract for preventive and corrective maintenance available

Applications:

- EMC tests
- RF tests and instrumentation
- Radiocommunication
- Measurement and research laboratories

Versions:

- **DT 150 D** amplifier with:
 - ⇒ Display
 - ⇒ Digital control
 - ⇒ IEEE 488 GPIB Communication
- **DT 150 DC** : DT 150 D with :
 - ⇒ Integrated bidirectional coupler
 - ⇒ display of instantaneous power

DT series:

- DT 25 => 25 W CW
- DT 70 => 70 W CW
- DT 600 => 600 W CW

Prana additional options:

- External coupler
- Supply and integration inside a cabinet
- Bulk Current Injection + Calibration JIG
- RF Power cable
- Switching unit

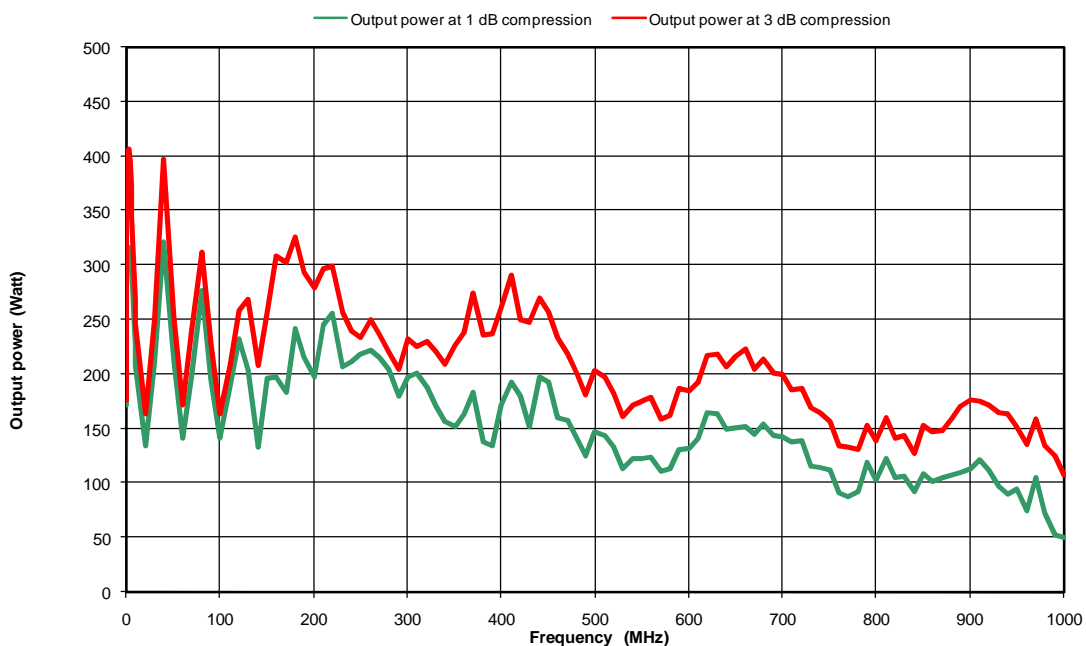


Specifications

Frequency bandwidth.....	10 kHz - 1000 MHz
Typical output power.....	150 W
Power at 3 dB compression.....	140 W min. up to 500 MHz / 60 W min. from 500 MHz to 1000 MHz
Power at 1 dB compression.....	120 W min. up to 500 MHz / 50 W min. from 500 MHz to 1000 MHz
Harmonics distortion.....	H2,H3 < -20 dBc for the output power at 1 dB compression limit
Class type.....	Class A
Gain.....	52 dB
Linear power gain flatness.....	± 5 dB max
Mismatch tolerance.....	infinite without damage
Input impedance.....	50 ohms / VSWR: 2:1max
Output impedance.....	50 ohms / VSWR: 2:1max
Input power.....	+10 dBm max.
RF input connector.....	Type N fem. (front or rear panel) – other connector type on request
RF output connector.....	Type N fem. (front or rear panel) – other connector type on request
Safety interlock.....	Connector type BNC
Digital control.....	Transistors, power supplies and internal temperature
Communication interface.....	IEEE 488, RS232
4 lines digital display.....	Status, faults, (direct and reverse instantaneous power for DC version)
Ambient operating temperature.....	0 °C / + 35 °C
Room temperature storage.....	-20 °C / +70 °C
Cooling.....	Forced air: 120 l/sec max. (self contained fans)
Power voltage.....	90-250 VAC, 47-63 Hz, single phase
Rated current.....	15.5 A at 110 VAC / 6.7 A at 230 VAC
Dimensions.....	630 x 450 x 312 mm (7U) / 24.8 x 17.7 x 12.3 in (7U)
Weight.....	50 kg / 110 lb

DT 150 DC versions

Integrated bidirectional power coupler.....	Coupling factor 49 dB (DC version) ± 0.8 dB
Power coupling connector.....	Type N fem. (rear panel)
Estimated output power losses due to the coupler.....	0.3 dB



Electrical and Mechanical Specifications subject to change without notice.