

DT 150

DT Range: 10 kHz - 1000 MHz / 150 W CW



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 and
 - 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 Range

- DT 25 => 25 W CW
- DT 70 => 70 W CW
- DT 150 => 150 W CW
- DT 260 => 260 W CW
- DT 800 => 800 W CW

Extra

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

DT150 POWER AMPLIFIER 150W / 10 kHz - 1000 MHz



Specifications

Frequency bandwidth	10 kHz - 1000 MHz
Typical output power	150 W
Power at 3 dB compression	140 W min. up to 400 MHz / 60 W min. from 400 MHz to 1000 MHz
Power at 1 dB compression	120 W min. up to 400 MHz / 50 W min. from 400 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: 2:1 max
Output impedance	50 ohms / VSWR: 2:1 max
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	200-250 VAC, 47-63 Hz, single phase
Rated current	6.7 A at 230 VAC
Dimensions	640 x 450 x 312 mm (7U) / 25.2 x 17.7 x 12.3 in (7U)
Weight	50 kg / 110 lb

DT 150 DC version :

Integrated bidirectional power coupler	Coupling factor 49 dB typ.
Power coupling connector	Type N fem. (rear panel)
Estimated output power losses due to the coupler	0.6 dB