DT 90/130

DT Range: 9 kHz - 1000 MHz / 90 W CW - 130 W CW

Prana DT 90/130

- Class A solid state
- Broadband (instantaneous dual band): 9 kHz – 1000 MHz
- Frequency extension between 4 kHz and 9 kHz upon request
- Typical output power :
  - 90 W CW (9 kHz – 20 MHz) and
  - 130 W CW (20 MHz – 1 GHz)
- Linear output power (1 dB compression) guaranted with harmonics <-20 dBc:
  - P1dB >35 W and H<-20dBc at 9 kHz
  - P1dB >45 W and H<-20dBc from 10 kHz to 20 MHz
  - P1dB and H < -20 dBc from 20MHz to 1000MHz
- 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 90/130 D amplifier with:
  - Multicolor LCD display with touch panel
  - Digital control
  - IEEE 488 GPIB, Ethernet, USB, RS232 Communications
  - Temperature controlled fans
  - Safety interlock
- DT 90/130 DC : DT 90/130 D with :
  - Integrated dual directional coupler
  - display of instantaneous incident and reflected power

DT Range

- DT 30 => 30 W CW
- DT 90 => 90 W CW
- DT 180 => 180 W CW
- DT 90/130 => 90 W CW - 130 W CW
- DT 170/130 => 170 W CW - 130 W CW
- DT 310/220 => 310 W CW - 220 W CW
- DT 1250-800 => 1250 W CW - 800 W CW

Extra

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

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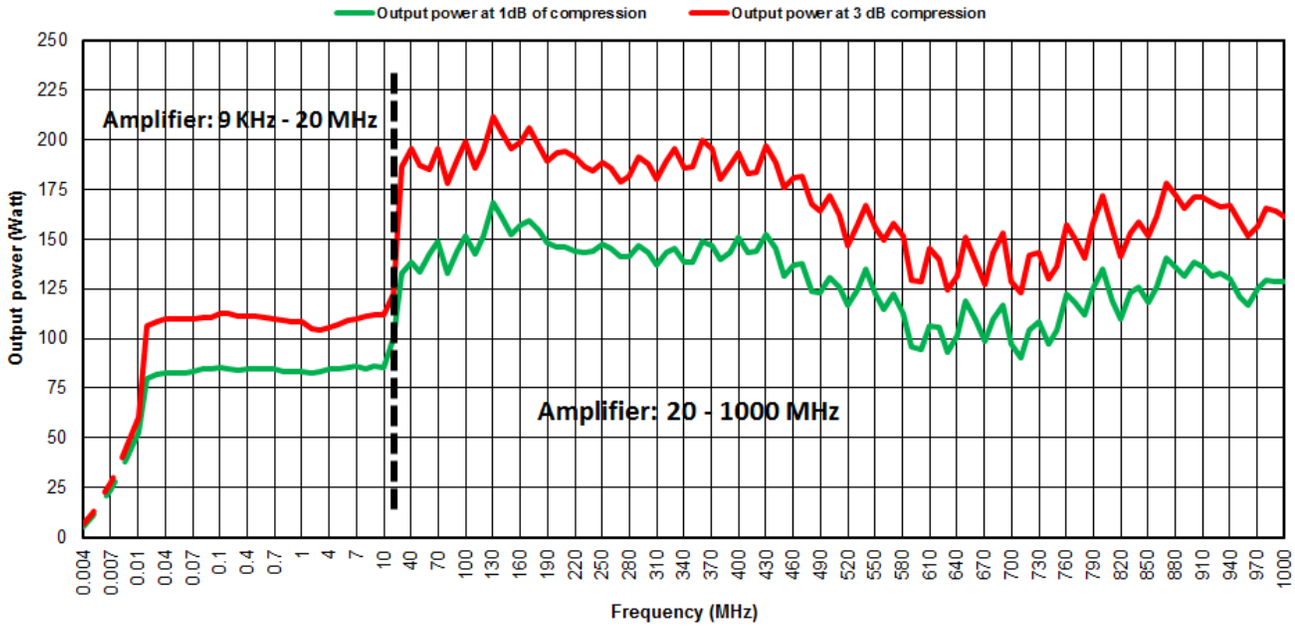

Specifications

Frequency bandwidth	Low band: 9 kHz - 20 MHz / High band: 20 MHz - 1000 MHz
Typical output power	90 W / 130 W
Minimum power at 3 dB compression	45W at 9 kHz / 57W 10kHz-30MHz / 155W 30-450MHz / 125W .45-1GHz
Minimum power at 1 dB compression	35W at 9 kHz / 45W 10kHz-30MHz / 110W 30-450MHz / 90W .45-1GHz
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression or limit
Class type	Class A
Gain	48 dB
Linear power gain flatness	± 3 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, temperatures, fans
Communication interface	Ethernet, USB, GPIB, RS232
Color LCD Display with touch screen	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 with fan speed control: 60 l/sec max. (self contained fans)
Power voltage	90-250 VAC, 47-63 Hz, single phase
Rated current	7.7 A at 110 VAC / 3.7 A at 230 VAC
Dimensions	640 x 450 x 178 mm (4U) / 25.2 x 17.7 x 7 in (4U)
Weight	28 kg / 62 lb

DT 90/130 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

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Made in France