

N-DR 75

DR Range: 9 kHz - 400 MHz / 75 W CW



Prana N-DR 75

- Class A solid state
- Broadband (instantaneous single band): 9 kHz –400 MHz
- Frequency extension between 4 kHz and 9 kHz upon request
- Typical output power : 75 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 35 W and H<-20 dBc at 9 kHz
 - P1dB > 40 W and H<-20 dBc from 10 kHz to 20 kHz
 - P1dB > 55 W and H<-20 dBc from 20 kHz to 400 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

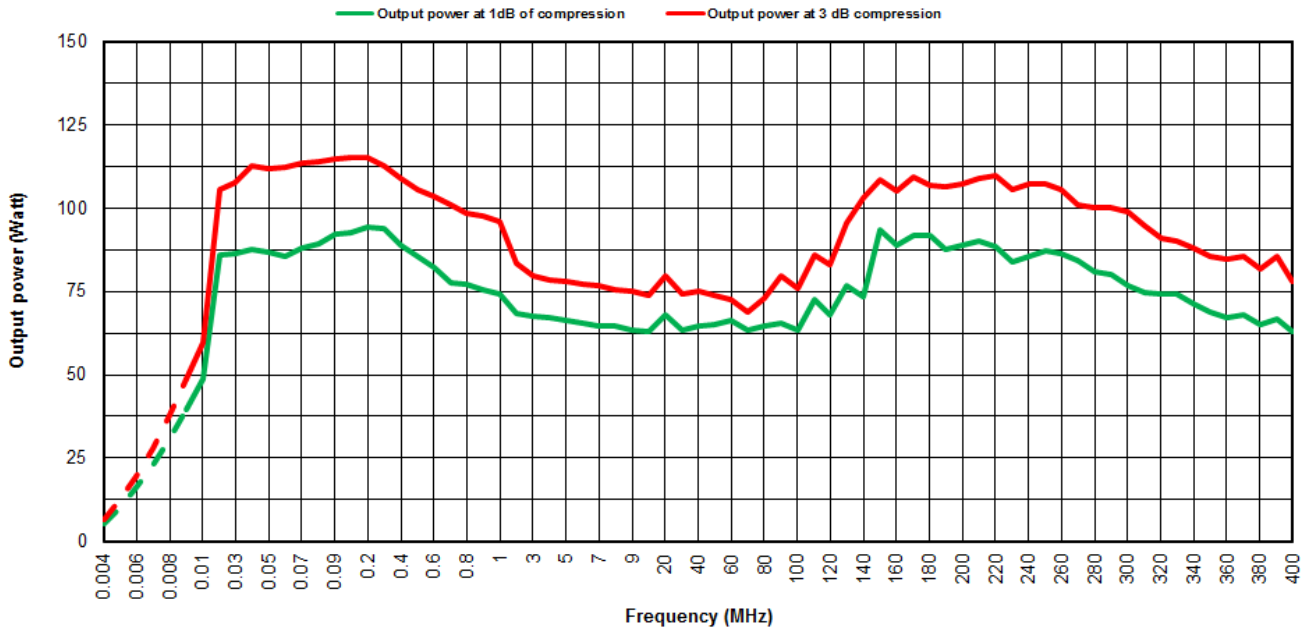
- N-DR 75 S : standard amplifier
- N-DR 75 D amplifier with:
 - Multicolor LCD display with touch panel
 - Digital control
 - IEEE 488 GPIB, Ethernet, USB, RS232 Communications
 - Temperature controlled fans
 - Safety interlock
- N-DR 75 SC : N-DR 75 S with
 - Integrated dual directional coupler
- N-DR 75 DC : N-DR 75 D with :
 - Integrated dual directional coupler
 - Display of instantaneous incident and reflected power

DR Range

- N-DR 75 => 75 W CW
- N-DR 140 => 140 W CW
- N-DR 290 => 290 W CW
- N-DR 540 => 540 W CW
- N-DR 1100 => 1100 W CW
- N-DR 1800 => 1800 W CW
- N-DR 3200 => 3200 W CW

Extra

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



Specifications

| | |
|-------------------------------|----------------------------------------------------------------------------------------|
| Frequency bandwidth | 9 kHz - 400 MHz |
| Typical output power | 75 W |
| Power at 3 dB compression | 40W min at 9 kHz/ 50W min from 10 to 20 kHz/ 60W min from 20 kHz to 400 MHz |
| Power at 1 dB compression | 35W min at 9 kHz/ 40W min from 10 to 20 kHz/ 55W min from 20 kHz to 400 MHz |
| Harmonics distortion | H2,H3 < -20 dBc for the output power at 1 dB compression limit |
| Class | Type class A |
| Gain | 48 dB |
| Linear power gain flatness | ± 2.5 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 |
| Ambient operating temperature | 0 °C / + 35 °C |
| Room temperature storage | -20 °C / +70 °C |
| Cooling | Forced air with fan speed control (for D version): 20 l/sec max. (self contained fans) |
| Power voltage | 90-250 VAC, 47-63 Hz, single phase |
| Rated current | 4.1 A at 110 VAC / 1.9 A at 230 VAC |
| Dimensions | 640 x 450 x 89 mm (2U) / 25.2 x 17.7 x 3.5 in (2U) |
| Weight | 10 kg / 26.5 lb |

N-DR 75 D version :

| | |
|-------------------------------------|-------------------------------------------------------------------------|
| Safety interlock | Connector type BNC |
| Digital control | Transistors, power supplies, temperatures and fans |
| Communication interface | Ethernet, USB, GPIB, RS232 |
| Color LCD Display with touch screen | Status, faults, (direct and reverse instantaneous power for DC version) |

N-DR 75 SC and N-DR 75 DC versions :

| | |
|--------------------------------------------------|-------------------------------------------------------------------|
| Integrated bidirectional power coupler | Coupling factor 40 dB typ. (SC version) / 49 dB typ. (DC version) |
| Power coupling connector | Type N fem. (front or rear panel) |
| Estimated output power losses due to the coupler | 0.3 dB |