

LT 160

LT Range: 20 MHz - 1000 MHz / 160 W CW



Prana LT 160

- Class A solid state
- Broadband (instantaneous single band): 20 MHz – 1000 MHz
- Typical output power :160 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 80 W and H < -20 dBc from 30 MHz to 80 MHz and
 - P1dB > 140 W and H < -20 dBc from 80 MHz to 500 MHz and
 - P1dB > 100 W and H < -20 dBc from 500 MHz to 1000 MHz
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Upgradable to LT 320 possible (7U)
- 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

- LT 160 S : standard amplifier
- LT 160 D amplifier with:
 - Display
 - Digital control
 - IEEE 488 GPIB Communication
- LT 160 SC : LT 160 S with
 - Integrated bidirectional coupler
- LT 160 DC : LT 160 D with :
 - Integrated bidirectional coupler
 - display of instantaneous power

LT Range

- LT 90 => 90 W CW
- LT 160 => 160 W CW
- LT 320 => 320 W CW
- LT 600 => 600 W CW

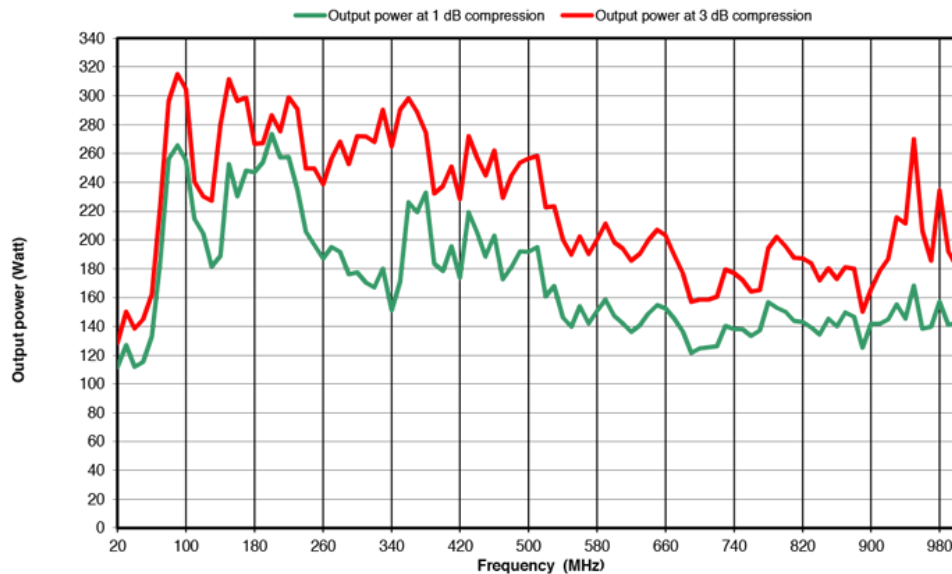
Extra

- External coupler
- Supply and integration inside a cabinet
- RF Power cable
- Switching unit

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LT160 POWER AMPLIFIER 160W / 20 MHz - 1000 MHz



Specifications

Frequency bandwidth	20 MHz - 1000 MHz
Typical output power	160 W
Power at 3 dB compression	95W min up to 80 MHz/ 200W min from 80 to 500 MHz/ 120W min from 500 to 1000 MHz
Power at 1 dB compression	80W min up to 80 MHz/ 140W min from 80 to 500 MHz/ 100W min from 500 to 1000 MHz
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression limit
Class type	Class A
Gain	51 dB
Linear power gain flatness	± 3 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
Ambient operating temperature	0 °C / + 35 °C
Room temperature storage	-20 °C / +70 °C
Cooling	Forced air: 60 l/sec max. (self contained fans)
Power voltage	90-250 VAC, 47-63 Hz, single phase
Rated current	10 A at 110 VAC / 4.8 A at 230 VAC
Dimensions	640 x 450 x 178 mm (4U) / 25.2 x 17.7 x 7 in (4U)
Weight	34 kg / 75 lb

LT 160 D version :

Safety interlock	Connector type BNC
Digital control	Transistors, power supplies and internal temperature
Communication interface	IEEE 488
4 lines digital display	Status, faults, (direct and reverse instantaneous power for DC version)

LT 160 SC and LT 1690 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