

# MT 1700

MT Range: 80 MHz - 1000 MHz / 1700 W CW



## Prana MT 1700

- Class A solid state
- Broadband (instantaneous single band): 80 MHz – 1000 MHz
- Typical output power : 1700 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
  - P1dB > 1500 W and H < -20 dBc up to 600 MHz and
  - P1dB > 1200 W and H < -20 dBc from 600 MHz to 1000 MHz
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Upgradable to MT 2000 possible
- Reliable, efficient and robust
- 22" Cabinet on wheels
- 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

- MT 1200 DC amplifier with:
  - Display
  - Digital control
  - IEEE 488 GPIB Communication
  - Integrated bidirectional coupler
  - display of instantaneous power

## MT Range

- MT 100 => 100 W CW
- MT 200 => 200 W CW
- MT 400 => 400 W CW
- MT 700 => 700 W CW
- MT 1200 => 1200 W CW
- MT 1400 => 1400 W CW
- MT 1700 => 1700 W CW
- MT 2000 => 2000 W CW
- MT 3500 => 3500 W CW

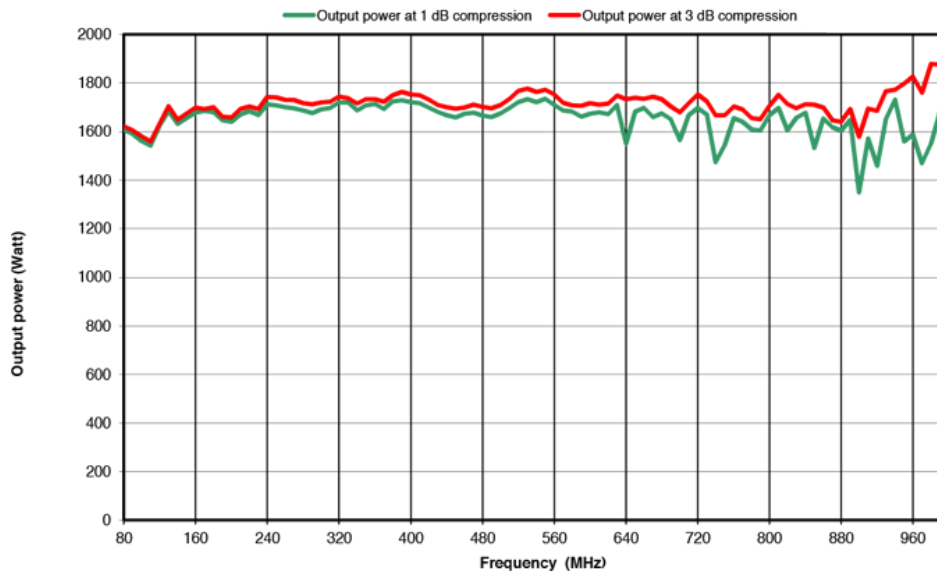
## Extra

- External coupler
- RF Power cable
- Switching unit

# MT 1700

MT Range: 80 MHz - 1000 MHz / 1700 W CW

MT1700 POWER AMPLIFIER 1700W / 80 MHz - 1000 MHz



## Specifications

|  |   |
|--|---|
| Frequency bandwidth                    | 80 MHz - 1000 MHz   |
| Typical output power                   | 1700 W  |
| Power at 3 dB compression              | 1500 W min up to 600 MHz / 1400 W min from 600 MHz to 1000 MHz          |
| Power at 1 dB compression              | 1500 W min up to 600 MHz / 1200 W min from 600 MHz to 1000 MHz          |
| Harmonics distortion                   | H2,H3 < -20 dBc for the output power at 1 dB compression limit          |
| Class type                             | Class A   |
| Gain                                   | 60 dB   |
| Linear power gain flatness             | ± 3.5 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 7/16 fem. (front or rear panel) – other connector type on request  |
| Integrated bidirectional power coupler | Coupling factor 59 dB typ.  |
| Power coupling connector               | Type N fem. (front or rear panel)                                       |
| Safety interlock                       | Connector type BNC  |
| Digital control                        | Transistors, power supplies and internal temperature                    |
| Mismatch protection                    | Self limitation for reflected power > 750 W                             |
| Communication interface                | IEEE 488  |
| 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: 960 l/sec max. (self contained fans)                        |
| Mains voltage                          | 47-63 Hz, 3 phases (star or delta)                                      |
| Rated current                          | 18.6 kVA  |
| Dimensions                             | 840 x 800 x 1940 mm (38U) / 33.1 x 31.5 x 76.4 in (38U)                 |
| Weight                                 | 590 kg / 1298 lb  |

MT170017MAR2015 - Electrical and Mechanical Specifications subject to change without notice.