Model #: I1T500M  Frequency Range: 460-510 MHz

Specifications*

- Operating frequency: 460-510 MHz
- Pulse power into 50 ohms: 500 W (min.)
- CW power: 50 W (min.)
- Pulse width: 20-100 msec typical. 300 msec maximum, depends on output power. Consult CPC for details.
- Linearity (+/- 1 dB, class AB): 500 W (min.)
- Gain (0 dBm input): + 57 dB (nominal)
- Gain flatness: +/- 2 dB, typ.
- Harmonic content (2nd/3rd): -20 dB/ -12 dBc, typ.
- Input/Output impedance: 50 ohms (nominal)
- Input VSWR: Less than 2:1
- Duty cycle: 10% (max.)
- Amplitude rise/fall time: 500 ns, typ.
- Amplitude droop: 5% to 20 ms. typ., 8% max.
- Phase change / output power: 12° to rated power, typ. 25° max.
- Phase error overpulse: 5° to 10 ms duration, typ.
- Noise figure: 12 dB typ.
- Output noise (blanked): 20 dB over thermal, typ.
- Blanking delay: 1 μs, typ., on/off, TTL signal

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The world's leading supplier of broadband power amplifiers.

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System Features

Protection functions:
- Auto/manual fault reset
- Maximum forward power
- Maximum average power
- Maximum VSWR
- Over temperature
- Power supply over voltage

Controls, front panel:
- AC power on/off
- Forward/Reflected RF Power
- Fault reset
- Low power mode

Connectors, rear panel:
- AC mains, Receptacles, EMI filtered
- RF input: BNC (F)
- RF output: Type N (F)
- Noise blanking: BNC (F) dual polarity
- Interface: 25 pin D (F), EMI filtered
- Fwd/Ref RF sample: SMA (F)
- Protective ground: threaded bolt

Front panel indicators:
- AC power on
- Standby mode
- RF overdrive fault
- VSWR fault
- Energy fault

Interface functions:
- (C= Control Input  F= Flag Output)
- CW mode (C/F)  Standby (C/F)
- Power supply (F)  RF overdrive (F)
- Thermal (F)  VSWR (F)
- Energy (F)  Power limit select Po or Po/2 (C/F)

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Model #: IT500M  Frequency Range: 460-510 MHz

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