



The world's leading supplier of broadband power amplifiers.

Model #: 10.5T2000M-16C Frequency Range: 40-450 MHz

Specifications*



Printer
Friendly
Version



Operating frequency	40-450 MHz
Pulse power into 50 ohms per channel (16 channels)	2000 W (min.)
CW power	N/A
Pulse width	20-100 msec typical.
Linearity (+/-1 dB, class AB)	2000 W (min.)
Gain (0 dBm input)	+ 63 dB (nominal)
Gain flatness	+/- 3 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	100 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

Communication Power Corporation

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* CPC reserves the right to change specifications without notice.



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System Features

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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) X16
- RF output: Type N (F) X16
- Noise blanking: BNC (F) dual polarity X16
- Interface: 25 pin D (F), EMI filtered
- Fwd/ Ref RF sample: SMA (F) X16
- Protective ground: threaded bolt

Front panel indicators:

- | | |
|---------------------|--------------------|
| AC power on | Standby mode |
| Power supply status | RF overdrive fault |
| Thermal fault | VSWR fault |
| Blanking (Gate) | Energy fault |

Interface functions:

- | | |
|-----------------------------------|------------------|
| (C= Control Input F= Flag Output) | |
| Standby (C/F) | Power supply (F) |
| RF overdrive (F) | Thermal (F) |
| VSWR (F) | Energy (F) |

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Environmental

Cooling	Internal forced air, front to back flow
Operating temperature	+10 to 40°C
AC line voltage	208 VAC, +/- 10%, 47-63 Hz
Chassis size	78 x 27 x 40 (HWD,inches) (3 racks)
Net weight	1200 lbs. (approx.)
Compliance	CE, UL 2601 upon request



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