



The world's leading supplier of broadband power amplifiers.

Model #: 7T1000M-16C/2C/1C Frequency Range: 40-305 MHz

## Specifications\*



(8 of 16 channels shown)

Operating frequency	40-305 MHz
Pulse power into 50 ohms per channel (16 channel mode)	1000 W (min.)
CW power	50 W
Pulse width	20-100 msec typical.
Linearity (+/-1 dB, class AB )	1000 W (min.)
Gain (0 dBm input)	+ 60 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	250 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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\* CPC reserves the right to change specifications without notice.



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Model #: 7T1000M-16C/2C/1C Frequency Range: 40-305 MHz

Specifications\*



(8 of 16 channels shown)

Operating frequency	40-305 MHz
Pulse power into 50 ohms per channel (dual channel mode)	7000 W (min.)
CW power	N/A
Pulse width	20-100 msec typical.
Linearity (+/-1 dB, class AB )	7000 W (min.)
Gain (0 dBm input)	+ 68.5 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	250 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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## Specifications\*



(8 of 16 channels shown)

Operating frequency	40-305 MHz
Pulse power into 50 ohms per channel (single channel mode)	12000 W (min.)
CW power	N/A
Pulse width	20-100 msec typical.
Linearity (+/-1 dB, class AB )	12000 W (min.)
Gain (0 dBm input)	+ 71 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	250 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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## 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) 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        | CW mode             |
| Standby mode       | Power supply status |
| RF overdrive fault | Thermal fault       |
| VSWR fault         | Blanking (Gate)     |
| 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)

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