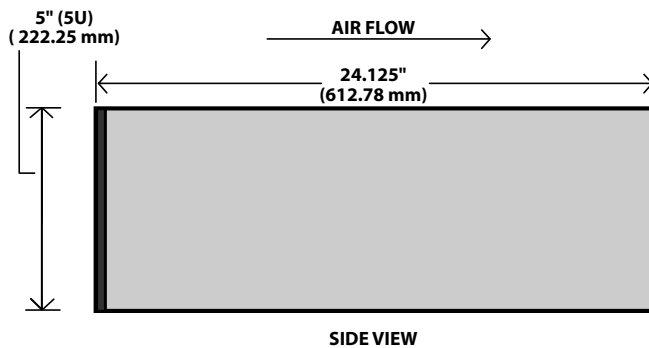




The world's leading supplier of broadband power amplifiers.

Model #: 22.7T100M Frequency Range: 175-975 MHz

## Specifications\*



|                                 |                                                                                                   |
|---------------------------------|---------------------------------------------------------------------------------------------------|
| Operating frequency             | 175-975 MHz                                                                                       |
| Pulse power into 50 ohms        | 100 W (min.)                                                                                      |
| CW power                        | 10 W (min.)                                                                                       |
| Pulse width                     | 20-100 msec typical.<br>300 msec maximum,<br>depends on output power.<br>Consult CPC for details. |
| Linearity (+/- 1 dB, class AB ) | 100 W (min.)                                                                                      |
| Gain (0 dBm input)              | + 50 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        | 200 ns, typ.                                                                                      |
| Amplitude droop                 | 5% to 20 ms. typ.,<br>8% max.                                                                     |
| Phase change / output power     | 12° to rated power,<br>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,<br>TTL signal                                                                 |

### Communication Power Corporation

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Web Site: [www.CPCAMPS.COM](http://www.CPCAMPS.COM)

\* CPC reserves the right to change specifications without notice.

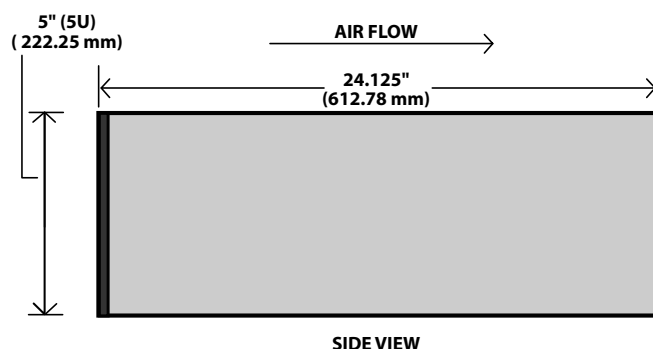


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## System Features

Printer  
Friendly  
Version



### 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
- Summary fault
- Blanking (Gate)

### 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

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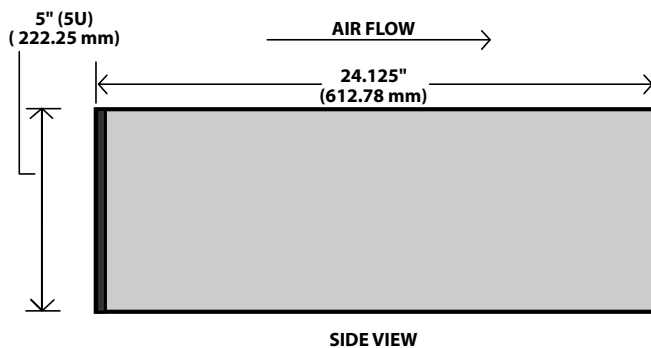
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## Environmental

|                       |                                             |
|-----------------------|---------------------------------------------|
| Cooling               | Internal forced air, front to back flow     |
| Operating temperature | +10 to 40°C                                 |
| AC line voltage       | 120/208 VAC, +/-10%, 47-63 Hz               |
| Chassis size          | 5 x 8.5 x 24 (HWD,inches)<br>Rack mountable |
| Net weight            | 65 lbs. (approx.)                           |
| Compliance            | CE, UL 2601 upon request                    |



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