Model #: 16T300M  Frequency Range: 650-710 MHz

**Specifications**

- **Operating frequency**: 650-710 MHz
- **Pulse power into 50 ohms**: 300 W (min.)
- **CW power**: 30 W (min.)
- **Pulse width**: 20-100 msec typical. 300 msec maximum, depends on output power. Consult CPC for details.
- **Linearity (+/- 1 dB, class AB)**: 300 W (min.)
- **Gain (0 dBm input)**: + 55 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**: 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

* CPC reserves the right to change specifications without notice.
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
- CW mode
- Power supply status
- Thermal fault
- Blanking (Gate)
- Power limit select, Hi/Lo

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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Environmental

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling</td>
<td>Internal forced air, front to back flow</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>+10 to 40°C</td>
</tr>
<tr>
<td>AC line voltage</td>
<td>208 VAC, +/-10%, 47-63 Hz</td>
</tr>
<tr>
<td>Chassis size</td>
<td>8.75 x 19 x 26 (HWD, inches) Rack mountable</td>
</tr>
<tr>
<td>Net weight</td>
<td>80 lbs. (approx.)</td>
</tr>
<tr>
<td>Compliance</td>
<td>CE, UL 2601 upon request</td>
</tr>
</tbody>
</table>

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