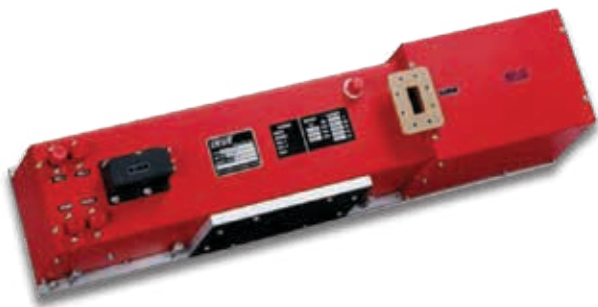


Communications & Power Industries Helix Traveling Wave Tube



Custom configurations are also available. These variations in the performance and configuration include:

- mechanical configurations
- electrical and RF connections
- dual-stage depressed collector

FEATURES:

- 2.25 kW
- 5.85 - 7.10 GHz
- PPM focusing
- Coaxial input
- Waveguide output
- Any mounting position
- Weight: 25 lbs. max
- Forced-air cooled

BENEFITS:

- High efficiency
 - Less prime power required (due to multiple stage collectors)
- PPM focusing

APPLICATIONS:

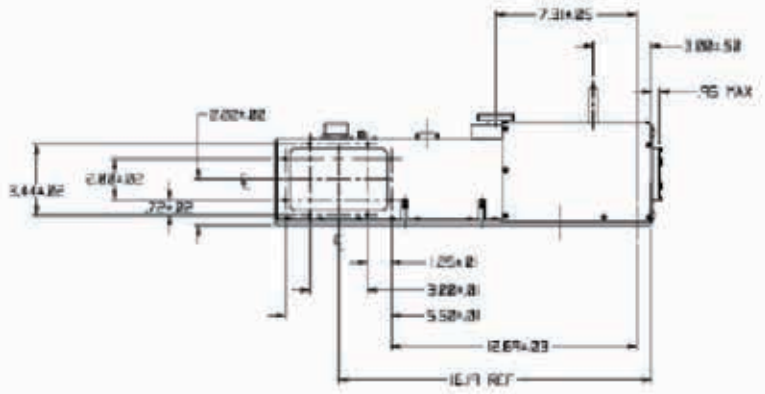
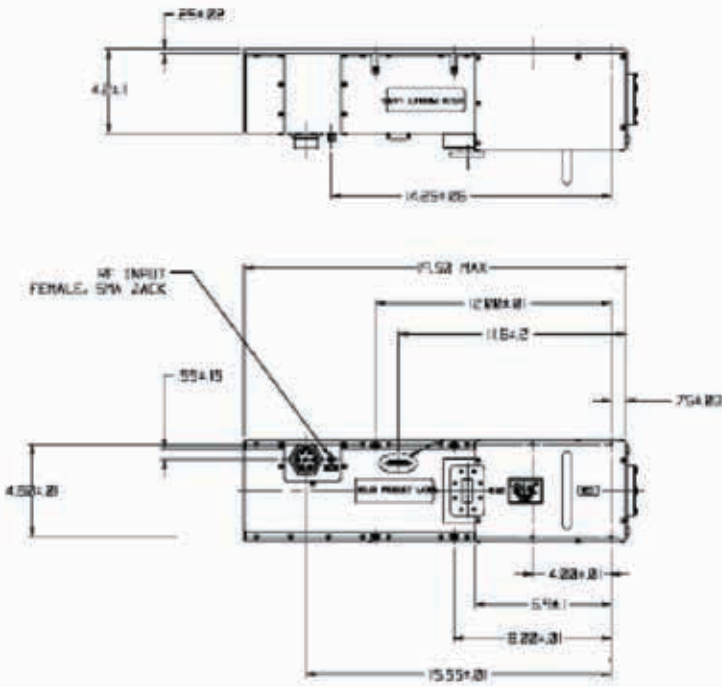
- Satellite uplinks
- Communications
- Instrumentation
- DBS (Direct Broadcast System)

| | Frequency (GHz) | Power output (min) |
|------------|-----------------|--------------------|
| VTC-6368D1 | 5.85 - 6.65 | 2.25 kW |
| VTC-6368D2 | 5.850 - 6.725 | 2.25 kW |
| VTC-6368D3 | 5.85 - 7.10 | 2.25 kW |

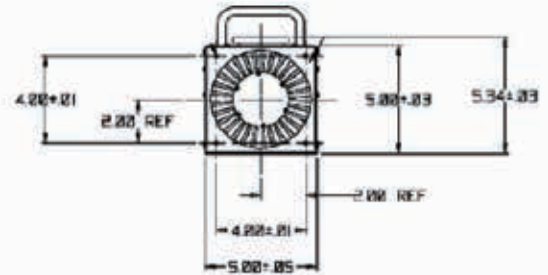
Typical Operating Parameters

| | Minimum | Maximum | Typical | Units |
|----------------------|-----------|-----------|---------|---------|
| Heater voltage | 6.0 | 6.4 | --- | Vdc |
| Heater surge current | --- | 5.0 | --- | A |
| Helix voltage | 14.0 | 15.5 | --- | kVdc |
| Helix current | --- | 25 | --- | mAdc |
| Collector voltage 1 | 64% of Ew | 66% of Ew | --- | kVdc |
| Collector current 1 | --- | 500 | --- | mAdc |
| Collector voltage 2 | 19% of Ew | 21% of Ew | --- | kVdc |
| Collector current 2 | --- | 900 | --- | mAdc |
| Cathode warm-up time | 3.0 | --- | --- | minutes |
| Collector temp | --- | 150 | --- | °C |
| Prime power | --- | 6000 | --- | W |
| Load VSWR | --- | 2.0:1 | --- | VSWR |
| Air flow | --- | 500 | --- | Lb/hr |

CPI CW Helix Traveling Wave Tube: VTC-6368D1, D2, D3



Outline:
VTC-6368D1, D2, D3



The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.



**Microwave Power
Products Division**
811 Hansen Way
Palo Alto, California
USA 94304

tel +1 650-846-2800
email MPPMarketing@cpj.com
web www.cpj.com/MPP

For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

©2020 Communications & Power Industries LLC. Company proprietary; use and reproduction is strictly prohibited without written authorization from CPI.