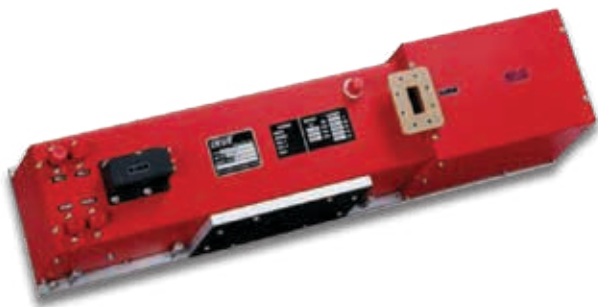


Communications & Power Industries Helix Traveling Wave Tube



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:

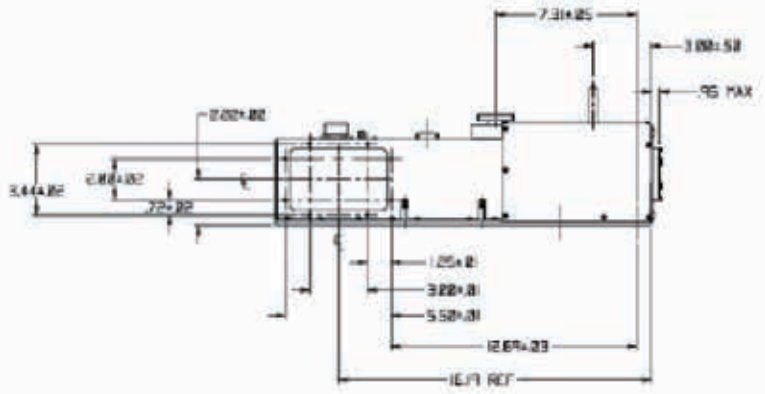
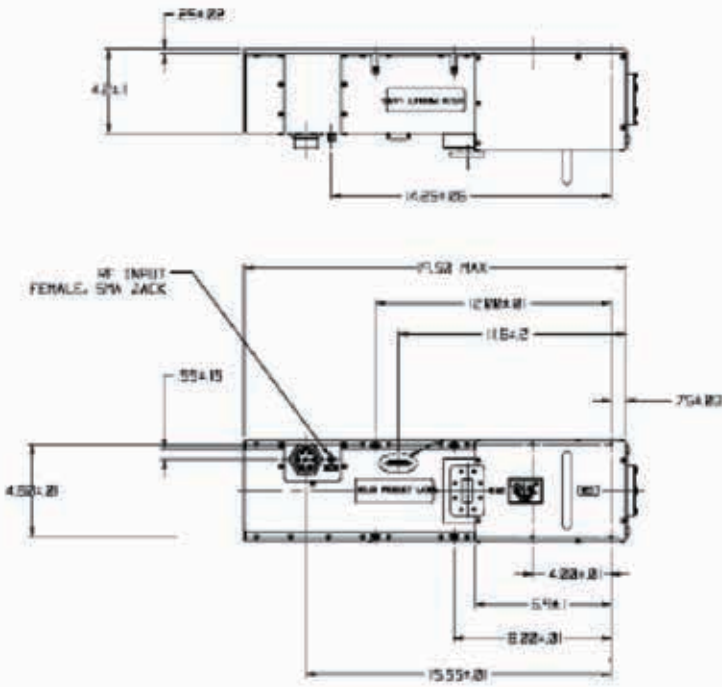
- Satellite uplinks
- Communications
- Instrumentation
- DBS (Direct Broadcast System)

	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

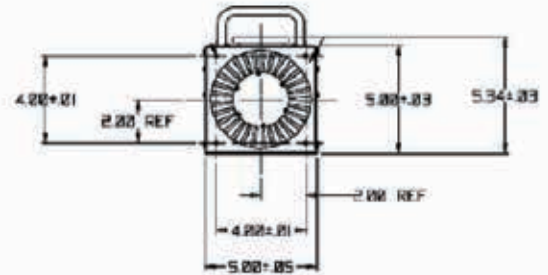
Typical Operating Parameters

	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.



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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.

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