## **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

Frequency (GHz)

Power output

(min)

VTX-6264D2X

7.9 - 8.4

400 W

### **FEATURES:**

- 400 W
- 7.9 8.4 GHz
- PPM focusing
- Coaxial input
- Waveguide output
- Weight: 7.5 lbs. max
- Conduction cooled

#### **BENEFITS:**

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

## **APPLICATIONS:**

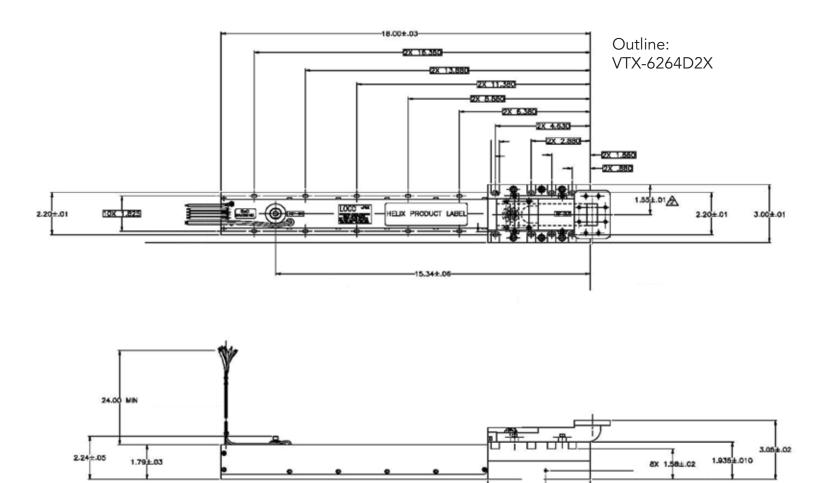
- Satellite uplinks
- Communications
- Instrumentation
- DBS (Direct Broadcast System)

Typical Operating Parameters

Typical operating talameters				
	Minimum	Maximum	Typical	Units
Heater voltage	6.0	6.6		Vdc
Heater surge current		5		Α
Helix voltage	8.4	8.8		kVdc
Helix current		12		mAdc
Collector voltage 1	48% of Ew	52% of Ew		kVdc
Collector current 1		165		mAdc
Collector voltage 2	34% of Ew	30% of Ew		kVdc
Collector current 2		310		mAdc
Cathode current		310		mAdc
Cathode warm-up time	3			minutes
Drive power		10		mW
Baseplate temp		110		°C
Prime power		1100		W
Load VSWR		1.1:1		VSWR



# **CPI CW Helix Traveling Wave Tube: VTX-6264D2X**



With a history of producing high quality products, we can help you with your Helix TWT. Contact us at MPPMarketing@cpii.com or call us at +1 650-846-2800.

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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