# **Communications & Power Industries High Energy Helix TWT**



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)	
VTC-6264D4	5.85 - 7.1	400 W	
VTC-6264D2C	5.85 - 7.1	400 W	

#### **FEATURES:**

- 400 Watt
- PPM Focusing
- Coaxial Input
- Waveguide Output
- Weight: 7.5 lbs. max
- Conduction Cooled
- Dual Stage Collector

### **BENEFITS:**

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

### **APPLICATIONS:**

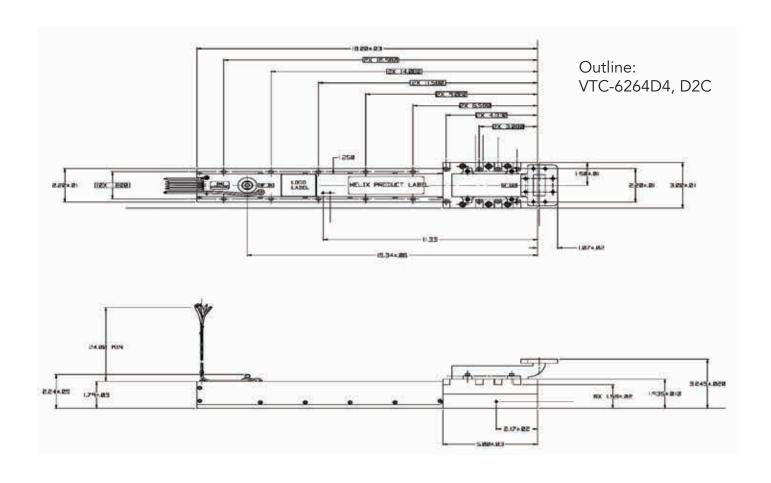
- Satellite uplinks
- Communications
- Instrumentation
- DBS (Direct Broadcast System)

**Typical Operating Parameters** 

	Minimum	Maximum	Typical	Units
Heater voltage	5.9	6.3		Vdc
Heater surge current	1.0	1.8	1.4	А
Helix voltage	8.4	9.1	8.8	kVdc
Helix current		15	6	mAdc
Collector voltage 1	49% of Ew	55% of Ew	50% of Ew	kVdc
Collector current 1		175	125	mAdc
Cathode current		310	290	mAdc
Collector voltage 2	31% of Ew	35% of Ew	32% of Ew	kVdc
Collector current 2		310	160	mAdc
Cathode warm-up time	3		3	minutes
Drive power		10	6	mW
Baseplate temp		120	85	°C
Prime power		1150		Watts
Load VSWR		1.5:1	<1.25	VSWR



## CPI CW Helix Traveling Wave Tube: VTC-6264D4, D2C



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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