## **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)	
VTU-6397H9	13.75 - 14.50	1250 W peak 625 W avg.	
VTU-6397H9B	12.75 - 14.50	1250 W peak 625 W avg.	

#### FFATURES:

- 1250 W peak, 625 W avg.
- 12.75 14.50 GHz
- Coaxial input
- Waveguide output
- Weight: 15 lbs. max
- Conduction cooled

#### **BENEFITS:**

- High efficiency
  - Less prime power required (due to multiple stage collectors)
- Available in air and conduction cooled
- PPM Focusing
- Coaxial Input
- Waveguide Output

### **APPLICATIONS:**

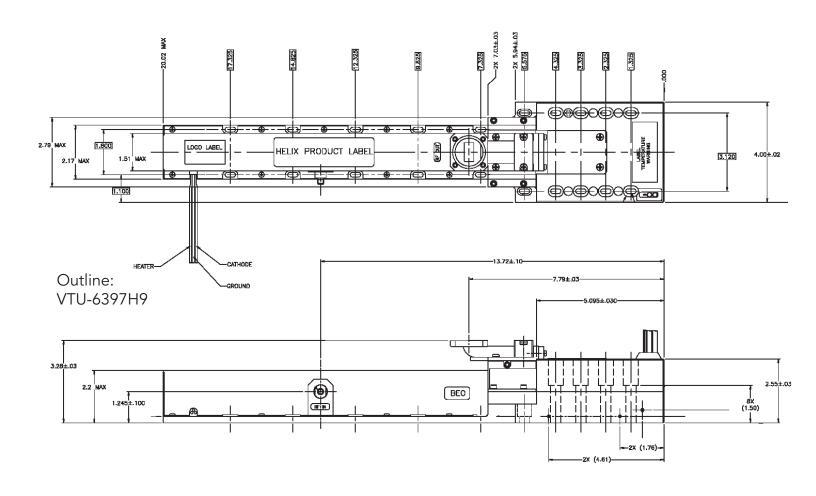
- Satellite uplinks
- Communications
- Instrumentation
- DBS (Direct Broadcast System)

**Typical Operating Parameters** 

	Minimum	Maximum	Typical	Units
Heater voltage	6.2	6.4	6.3	Vdc
Heater surge current	1.0	1.8	1.5	Α
Helix voltage	11.6	12.5	12.4	kVdc
Helix current		10.0	3.0	mAdc
Collector voltage 1	51.0	53.0	52.0	%
Collector current 1		40 dc; 260 rf	17 dc; 230 rf	mAdc
Collector voltage 2	25.0	27.0	26.0	%
Collector current 2		400 dc; 180 rf		mAdc
Heater warm-up time	3.0			minutes
Drive power		18	10.0	dBm
Prime power		2300	2100	W
Thermal temperature		1900	1350	W
Load VSWR		1.2:1		VSWR



# **CPI CW Helix Traveling Wave Tube: VTU-6397H9**



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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