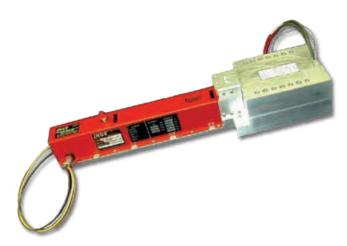
## **Communications & Power Industries Helix Traveling Wave Tube**



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-6397T3	13.75 - 14.50	750 W	
VTU-6397T3A	12.75 - 14.50	750 W	

### **FEATURES:**

- 750 W
- 12.75 14.50 GHz
- Coaxial input
- Waveguide output
- Weight: 9.5 lbs. max
- Conduction cooled

#### **BENEFITS:**

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

## **APPLICATIONS:**

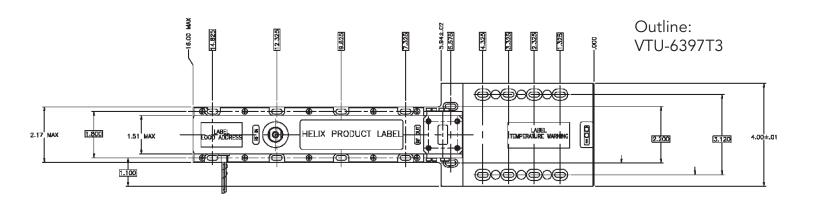
- Satellite uplinks
- Communications
- Instrumentation
- DBS (Direct Broadcast System)

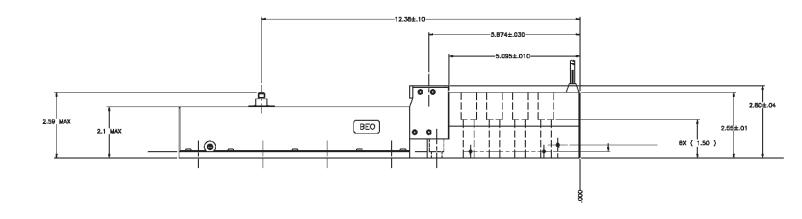
**Typical Operating Parameters** 

	Minimum	Maximum	Typical	Units
Heater voltage	6.2	6.4	6.3	Vdc
Heater surge current	1.0	1.8	1.4	Α
Helix voltage	11.8	12.5	12.3	kVdc
Helix current		10.0	3.0	mAdc
Collector voltage 1	49.0	51.0	50.0	%
Collector current 1		30 dc, 320 rf	17 dc; 215 rf	mAdc
Collector voltage 2	25.0	27.0	26.0	%
Collector current 2		420	400 dc; 200 rf	mAdc
Cathode warm-up time	3.0			minutes
Drive power		18.0	10.0	dBm
Prime power		2200	2100	W
Thermal temperature		1450	1350	W
Load VSWR		1.3:1		VSWR



# CPI CW Helix Traveling Wave Tube: VTU-6397T3, T3A





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.



Microwave Power Products Division 811 Hansen Way Palo Alto, California USA 94304 tel +1 650-846-2800 email MPPMarketing@cpii.com web www.cpii.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.

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