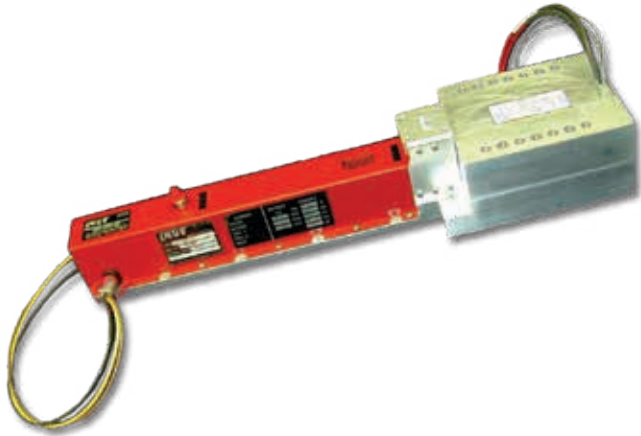


## Communications & Power Industries Helix Traveling Wave Tube



### 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)

Custom configurations are also available. These variations in the performance and configuration include:

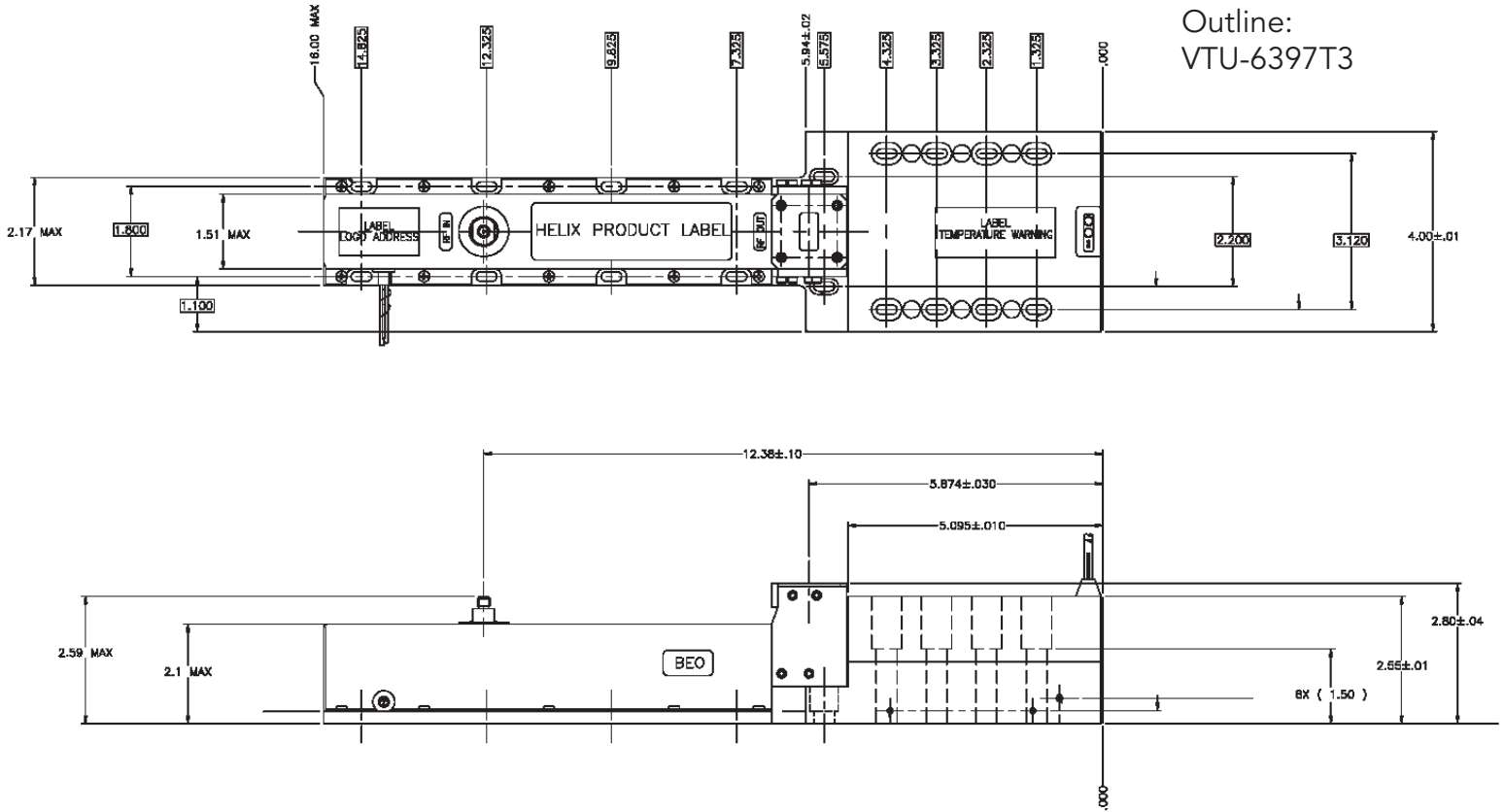
- mechanical configurations
- electrical and RF connections
- dual-stage depressed collector

	Frequency (GHz)	Power output (min)
VTU-6397T3	13.75 - 14.50	750 W
VTU-6397T3A	12.75 - 14.50	750 W

### 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	A
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](mailto: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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