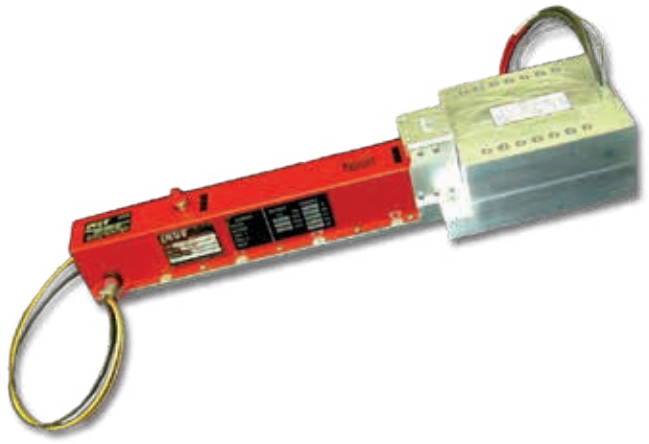
Ku-Band 750 W CW Helix TWT

VTU-6397T3, T3A

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

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:

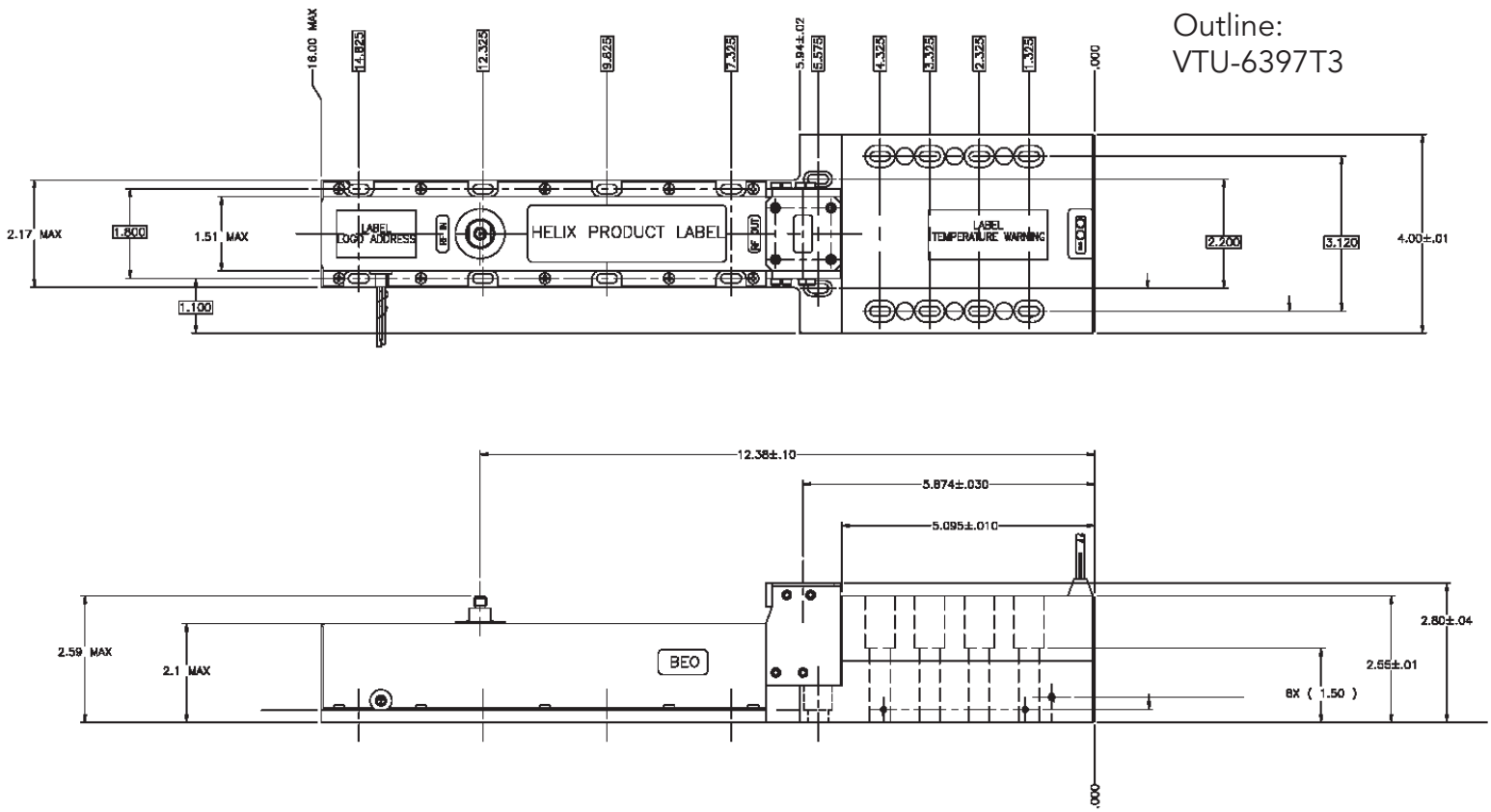
- Satellite uplinks
- Communications
- Instrumentation
- DBS (Direct Broadcast System)

	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 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.

Communications & Power Industries

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

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