

Communications & Power Industries Helix Traveling Wave Tube



FEATURES:

- 1250 W CW
- 13.75 - 14.50 GHz
- Coaxial input
- Waveguide output (WR-75)
- Weight: 25 lbs. max
- Air cooled
- Dimensions: 20.50" x 5.0" x 5.92"

BENEFITS:

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

APPLICATIONS:

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

UNIQUE FEATURES:

- Secure start (Focus Electrode Turn-on)
- MOD anode (optional)
- Improved thermal interface
- Low loss window coupler
- Improved PPM design
- 2-Stage high efficiency MSDC

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

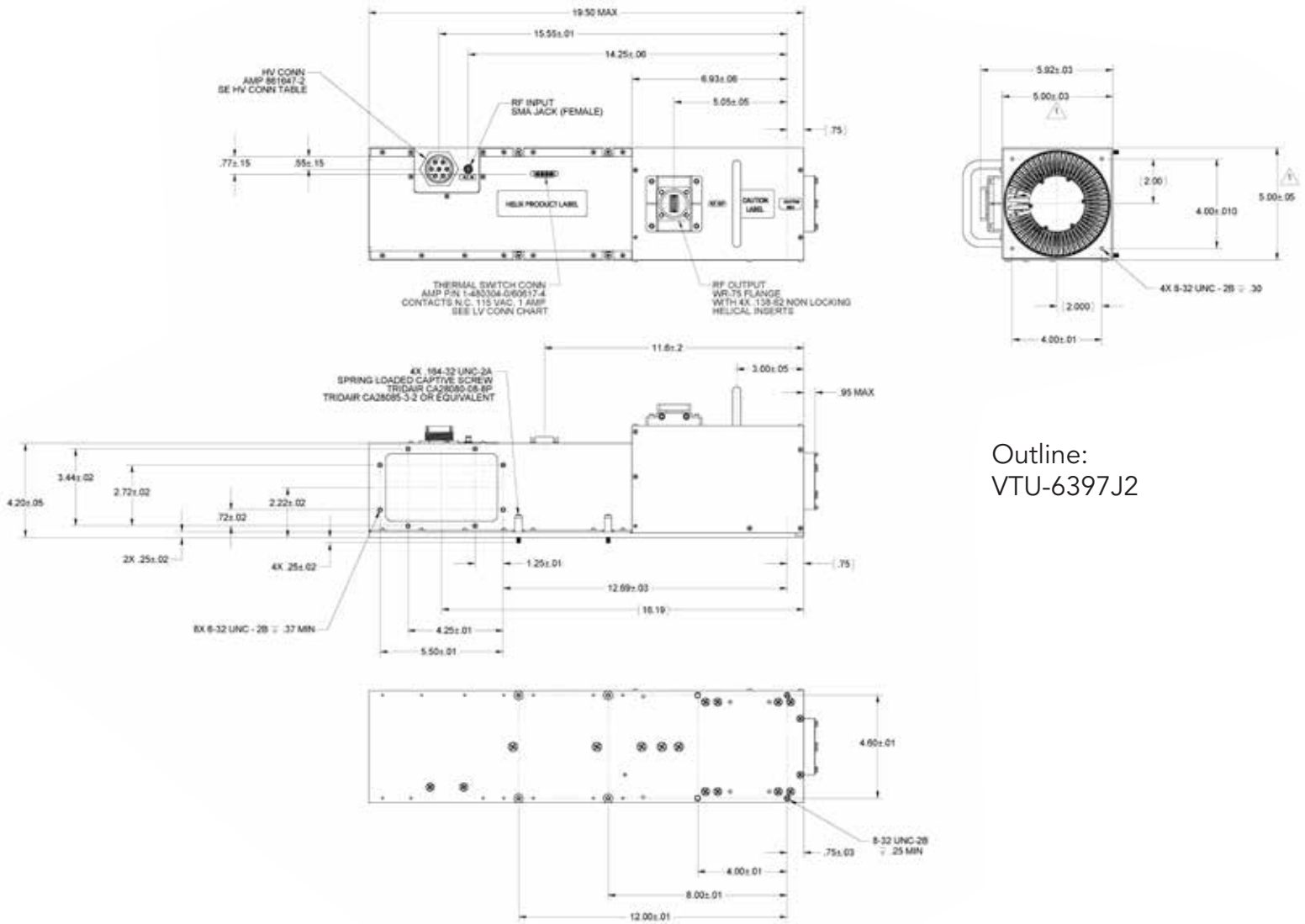
- mechanical configurations
- electrical and RF connections
- dual-stage depressed collector

	Frequency (GHz)	Power output (min)
VTU-6397J2	13.75 - 15.40	1200 W CW

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	A
Focus electrode				
Beam-on	-10	-5.8	-6.3	V
Beam-off	-2300	-2200	-2250	V
Focus electrode current	---	---	100	mAdc
Helix voltage	13.8	15.2	14.7	kVdc
Helix current	---	10.0	3.0	mAdc
Collector voltage 1	54.0	56.0	55.0	%
Collector current 1	---	650 rf	25 dc; 300 rf	mAdc
Collector voltage 2	25.0	27.0	26.0	%
Collector current 2	---	650	610 dc; 315 rf	mAdc
Cathode warm-up time	3.0	---	---	minutes
Drive power	---	2.0	14.0	dBm
Prime power	---	4600	3650	W
Thermal temperature	---	3350	2385	W
Load VSWR	---	1.2:1	1.1:1	VSWR

CPI CW Helix Traveling Wave Tube: VTU-6397J2



Outline:
VTU-6397J2

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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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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