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-6397D5A

12.75 - 14.50

750 W

FEATURES:

- 750 W
- 12.75 14.50 GHz
- Coaxial input
- Waveguide output
- Weight: 25 lbs. max
- Air cooled

BENEFITS:

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

APPLICATIONS:

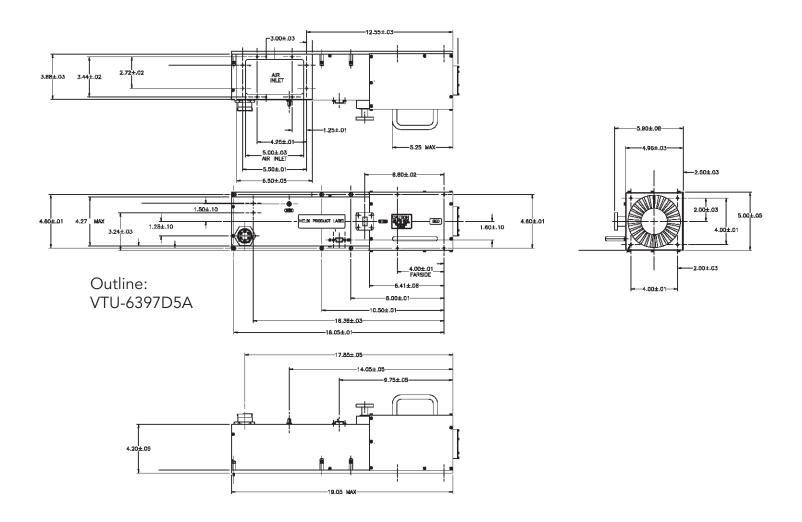
- Satellite uplinks
- Communications
- Instrumentation
- DBS (Direct Broadcast System)

Typical Operating Parameters

Typical operating talameters				
	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-6397D5A



The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.