## 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-6398J1A	17.3 - 18.1	750 W Peak	
VTU-6398J1B	17.3 - 18.4	750 W Peak	

#### **FEATURES:**

- 750 W
- 17.3 -18.4 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:**

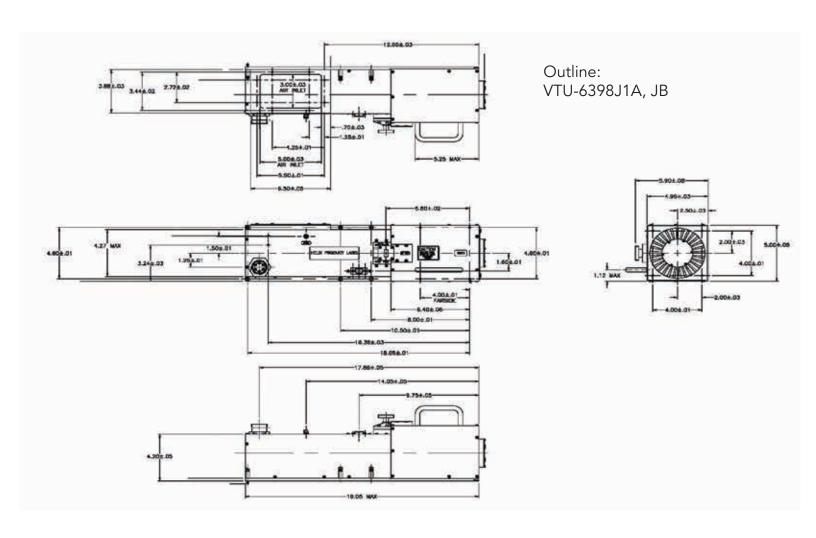
- Satellite uplinks
- Communications
- Instrumentation
- DBS (Direct Broadcast System)

**Typical Operating Parameters** 

Typical operating farantetore						
	Minimum	Maximum	Typical	Units		
Heater voltage	6.1	6.4	6.3	Vdc		
Heater surge current	0.8	1.6	1.4	Α		
Helix voltage	10.5	12.6	12.4	kVdc		
Helix current				mAdc		
Collector voltage 1	49.0	51.0	50.0	%		
Collector current 1		375		mAdc		
Collector voltage 2	25.0	27.0	26.0	%		
Collector current 2		440		mAdc		
Filament warm-up time		3.0		minutes		
Drive power		22	20	dBm		
Prime power		2350		W		
Thermal temperature		1600		W		
Load VSWR		1.25:1	1.15:1	VSWR		



# CPI CW Helix Traveling Wave Tube: VTU-6398J1A, JB



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.

©2020 Communications & Power Industries LLC. Company proprietary: use and reproduction is strictly prohibited without written authorization from CPI.