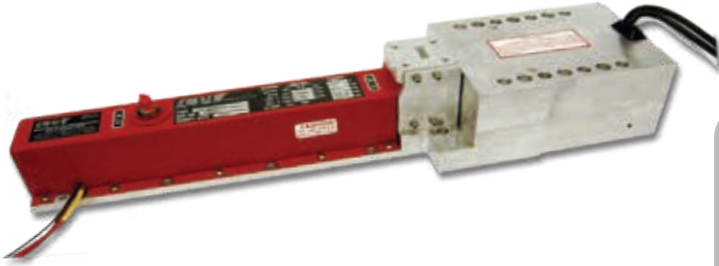


## Communications & Power Industries Helix Traveling Wave Tube



### FEATURES:

- 750 W
- 17.3 GHz - 18.4 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-6398S1	17.3 - 18.1	750 W
VTU-6398S2	17.3 - 18.4	750 W

### Typical Operating Parameters

	Minimum	Maximum	Typical	Units
Heater voltage	6.1	6.4	6.3	Vdc
Heater surge current	0.8	1.6	1.4	A
Helix voltage	10.5	12.6	12.4	kVdc
Helix current	---	10.0	3.8	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	---	2250	---	W
Thermal temperature	---	1500	---	W
Load VSWR	---	1.25:1	1.15:1	VSWR