

## 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

	<b>FREQUENCY (GHZ)</b>	<b>POWER OUTPUT (MIN)</b>
VTX-6282F3	8.0 - 12.4	200 W

### FEATURES:

- 200 Watt
- 8.0 - 12.4 GHz
- Focus Electrode Controlled
- Equalized
- PPM Focusing
- Coaxial Input
- Waveguide Output
- Weight: 7 lbs.
- 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)

### TYPICAL OPERATING PARAMETERS

	Minimum	Maximum	Typical	Units
Heater Voltage:	6.0	6.6	---	V
Heater Surge Current:	---	5.0	---	A
Helix Voltage:	8.3	9.5	---	kVdc
Helix Current:	---	25.0	---	mAdc
Collector Voltage:	4.0	5.0	---	kVdc
Cathode Current:	---	350	---	mAdc
Heater Warm-up Time:	3.0	---	---	Minutes
Drive Power:	---	500	---	mW
Load VSWR:	---	2.0:1	---	VSWR

# CPI CW Helix Traveling Wave Tube: VTX-6282F3



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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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