

2.5 kW X-Band Helix TWT Series

2.5 kW, CW Helix TWT Series, 7.9 GHz to 8.4 GHz, Periodic-Permanent, Magnet Focused, Coaxial Input, Waveguide Output, and Forced Air Cooled.

Custom configurations are also available. These variations in the performance and configuration include: mechanical configuration, electrical and RF connections, & dual stage depressed collector.



Model Number	Frequency (GHz)	Power Output (Min.)
VTX-6389G5	7.9 – 8.4	2500 W
VTX-6389G4	7.9 – 8.4	2250 W
VTX-6389L3	7.3 – 8.7	1800 W

Features

- 2.5 k Watts
- 7.9 GHz – 8.4 GHz
- PPM Focusing
- Coaxial Input
- Waveguide Output
- Any Mounting Position
- Weight: 25 lbs. max
- Forced Air Cooled

Parameters:
Units:
Maximum:
Minimum:
Typical:

Heater Voltage	Heater Surge Current	Helix Voltage	Collector Voltage 1	Collector Voltage 2	Cathode Current
Ef	If	Ew	Eb1	Eb2	Ik
Vdc	A	kVdc	kVdc	kVdc	Adc
6.6	5.0	15.4	60% Ew	30% Ew	1.0 A
6.0	---	13.9			---

Operating Parameters

Parameters:
Units:
Maximum:
Minimum:
Typical:

Helix Current	Drive Power	Cathode Warm-Up Time	Load VSWR	Envelope Temp.	Air Flow
Iw	Pd	tk			
mAdc	mW	minutes	1.7:1	°C	lb/hr
20	Adj.	---	---	---	---
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The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.