

Dual C/X-Band Helix TWT Series

Dual – Band, CW Helix TWT Series, 1000 W, 5.85 GHz to 6.425 GHz, and 2000 W, 7.90 GHz to 8.40 GHz, Periodic-Permanent, Magnet Focused, Coaxial Input, Waveguide Output, 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-6379E1	5.85 – 6.425/7.9 – 8.4	1000/2000 W

Features

- Dual Band (C/X)
- 5.85 GHz – 6.425 GHz, 1 kW
- 7.90 GHz – 8.40 GHz, 2 kW
- PPM Focusing
- Coaxial Input
- Waveguide Output
- Any Mounting Position
- Weight: 25 lbs. max
- Forced-Air Cooled
- Separate Equalizer provided for C-Band

Operating Parameters

Parameters:	Heater Voltage	Heater Surge Current	Helix Voltage	Collector Voltage 1	Collector Voltage 2	Collector Current 1	Collector Current 2
	Ef	If	Ew	Eb1	Eb2	Ib1	Ib2
Units:	Vdc	A	kVdc	kVdc	kVdc	mAdc	mAdc
Maximum:	6.6	5	15.4	62% of Ew	32% Ew	990	650
Minimum:	6.0	---	13.9	58% of Ew	28% Ew	---	---
Typical:							

Parameters:	Helix Current	Drive Power	Cathode Warm-Up Time	Load VSWR	Collector Temperature	Air Flow	Inlet Air Temp
	Iw	Pd	tk		°C	lb/hr	°C
Units:	mAdc	mW	minutes				
Maximum:	22	Adj.	---	1.7:1	150	---	52
Minimum:	---	---	3	---	---	628	---
Typical:							

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.

For additional information on CPI MPP products contact:

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