

Dual C/X-Band Helix TWT Series

Dual band, CW Helix TWT Series, 1000 Watts, 5.85 - 6.425 GHz, and 2000 Watts, 7.90 - 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, and dual-stage depressed collector.



FEATURES

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

MODEL	FREQUENCY (GHZ)	POWER OUTPUT (MIN)
VTX-6379E1	5.85 - 6.425 / 7.9 - 8.4	1000 / 2000 W

TYPICAL OPERATING PARAMETERS				
	MAXIMUM	MINIMUM	TYPICAL	UNITS
Filament Voltage:	6.6	6.0	---	Vdc
Filament Current (Surge):	5	---	---	A
Helix Voltage:	15.4	13.9	---	kVdc
Helix Current:	22	---	---	mAdc
Collector Voltage 1:	62%	58%	---	kVdc
Collector Current 1:	500	---	---	mAdc
Cathode Current:	---	---	---	mAdc
Collector Voltage 2:	32%	28%	---	kVdc
Collector Current 2:	900	---	---	mAdc
Cathode Warm-up Time:	---	3.0	---	Minutes
Drive Power:	---	---	---	mW
Inlet Air Temp:	52	---	---	°C
Collector Temp:	150	---	---	°C
Load VSWR:	1.7:1	---	---	VSWR
Air Flow:	628	---	---	lb/hr

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 information on this and other CPI products, visit our website at: www.cpii.com, or contact: CPI MPP Division, 607 Hansen Way, Palo Alto, CA 94303

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