



# 80 W, Ku-Band Helix TWT Series

80 W, CW Helix TWT Series, 14.0 to 14.5 GHz, periodic-permanent, magnet focused, coaxial input, waveguide output, conduction 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

- 80 W
- 14.0 - 14.5 GHz
- PPM Focusing
- Coaxial Input
- Waveguide Output
- Any Mounting Position
- Weight: 3 lbs. max
- Conduction Cooled

MODEL	FREQUENCY (GHZ)	POWER OUTPUT (MIN)
VTU-6191M2	14.0 - 14.5	80 W

TYPICAL OPERATING PARAMETERS				
	MAXIMUM	MINIMUM	TYPICAL	UNITS
Heater Voltage:	6.6	6.0	---	V
Heater Surge Current:	5.0	---	---	A
Helix Voltage:	5.5	4.5	---	kVdc
Helix Current:	8	---	---	mAdc
Collector Voltage	3.0	2.1	---	kVdc
Collector Current	---	---	---	mAdc
Cathode Current:	185	---	---	mAdc
Cathode Warm-up Time:	---	3.0	---	Minutes
Drive Power:	3	---	---	mW
Baseplate Temp:	100	---	---	°C
Prime Power:	---	---	---	Watts
Load VSWR:	3.0:1	---	---	VSWR

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.



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