



1 kW, Pulsed Helix TWT Series

1 kW, grid-pulsed TWT Series, 8.0 to 18.0 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

- 1 kW
- 8.0 to 18.0 GHz
- Grid-Pulsed
- PPM Focusing
- Coaxial Input
- Waveguide Output
- Any Mounting Position
- Weight: 6.5 lbs. max
- Conduction Cooled

MODEL	FREQUENCY (GHZ)	POWER OUTPUT (MIN)
VTU-5191A8	8.0 - 18.0	1 kW

TYPICAL OPERATING PARAMETERS				
	MAXIMUM	MINIMUM	TYPICAL	UNITS
Heater Voltage:	6.6	6.0	---	V
Heater Surge Current:	7.0	---	---	A
Helix Voltage:	11.5	9.5	---	kVdc
Helix Current:	550	---	---	mA
Beam Current:	2.2	---	---	a
Collector Voltage :	EW	7.0	---	kVdc
Grid Gate Voltage:	225	---	---	v
Grid Bias Voltage:	-200	-145	---	Vdc
RF Drive Power:	25	---	---	dBm
Beam Duty:	0.04	---	---	Du
Pulse Width:	125	---	---	µsec
Cathode Warm-up Time:	---	5	---	Minutes
Baseplate Temp:	100	---	---	°C
Load VSWR:	2.0:1	---	---	VSWR
Ambient Temp (Oper):	+85	-54	---	°C
Ambient Temp (Non-Oper):	+110	-54	---	°C

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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