

Communications & Power Industries CCTWT

The VTU-5790A pulsed coupled cavity TWT covers 16.0 GHz to 17.0 GHz with 30 kW peak output power, 1% duty cycle. This device has a non-intercepting grid pulsed and single stage depressed collector to achieve 46 dB gain.

Custom configurations are also available. These variations in the performance and configuration include: cooling method (affects average power level), mechanical configuration, electrical and RF connections, multiple stage depressed collector.

Contact us at MPPMarketing@cpii.com or call us at +1 650-846-2800.

Typical Operating Parameters

PARAMETER	MIN	MAX	UNIT S
Cathode Voltage	-38	-35	kV
Cathode Current	---	5.5	a
Heater Voltage	9	11	V
Heater Current	---	4	A
Collector Voltage	28	30	kV
Grid Bias Voltage	-500	-300	V
Grid Pulse Voltage	300	450	v
RF Drive Power	---	1.0	W
Pulse Width	---	50	µsec
Duty Cycle	---	1.0	%
Cooling Flow Rate	2.0	---	lbm/mn
Pressure Drop	---	3	In H ² O
Weight	---	20	lbs
Dimensions	---	4 X 4 X15	inches

FEATURES:

- 16.0 GHz to 17.0 GHz
- 30 kW Peak output power
- 1% Duty cycle
- Non-intercepting grid pulsed
- 46 dB gain
- Single stage depressed collector
- Forced air cooled
- PPM focused
- WR 62 waveguide, input and output

BENEFITS:

- Efficient
- Bandwidth
- Over 40 years of technical expertise

APPLICATIONS:

- Airborne radars
- Ground based radars



Microwave Power Products Division
 3120 Hansen Way
 Palo Alto, California
 USA 94303

tel +1 650-846-2800
 fax +1 650-856-0705
 email MPPMarketing@cpii.com
 web www.cpii.com/MPP

For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

©2020 Communications & Power Industries LLC. Company proprietary; use and reproduction is strictly prohibited without written authorization from CPI.