# 40 kW Pulsed Coupled Cavity TWT

# VTU-5690A

## **Communications & Power Industries CCTWT**

The VTU-5690A pulsed- coupled cavity TWT covers 16.0 GHz to 17.0 GHz with 40 kW peak output power, 0.3% duty cycle. This device has cathode pulsed and grounded collector to achieve 48 dB gain.

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

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## Typical Operating Parameters

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-38	-35	kV
Cathode Current		6.5	а
Heater Voltage	17	18	V
Heater Current		3	А
RF Drive Power		0.16	W
Pulse Width		20	µsec
Duty Cycle		0.3	%
Baseplate Temperature	50		deg C
Weight		11	Ībs
Dimensions		3 X 3 X 14	inches



#### **FEATURES:**

- 16.0 GHz to 17.0 GHz
- 40 kW Peak output power
- 0.3% Duty cycle
- Ccathode pulsed
- 48 dB gain
- Grounded collector
- Conduction cooled
- PPM focused
- WR 62 waveguide, input and output

### **BENEFITS**:

- Efficient
- Bandwidth
- Over 40 years of technical expertise

### **APPLICATIONS:**

- Airborne radars
- Ground based radars



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