



VTC-6660C CW Coupled Cavity TWT

The VTC-6660C is a CW coupled cavity TWT that produces 12 kilowatts of power over a frequency range of 5.925 GHz to 6.425 GHz. This device is anode switched, has a single stage depressed collector, and has 35 dB of gain.

Custom configurations are available. These variations include an integral solenoid, alternate RF connections and locations, and a multiple stage depressed collector.

Features

- 5.925 GHz to 6.425 GHz
- 12 kW OUTPUT POWER
- ANODE SWITCHED
- 35 dB GAIN
- DEPRESSED COLLECTOR
- FORCED LIQUID COOLED
- ELECTROMAGNET FOCUSED
- WR 137 WAVEGUIDE INPUT & OUTPUT

Typical Operating Parameters

PARAMETER	MIN	MAX	UNITS
Cathode Voltage	-21.0	-18.0	kV
Cathode Current	---	4.0	a
Heater Voltage	6.5	8.5	V
Heater Current	---	8.5	A
Collector Voltage	0.75Ek	0.85Ek	kV
Electromagnet Voltage	---	150	V
Electromagnet Current	---	12	A
RF Drive Power	---	5.0	W
Body Current	---	100	mA
Duty Cycle	---	CW	%
Anode Current		10	mA
Cooling Flow Rate:			
Collector		15.0	gal/min
Body		2.0	gal/min
Magnet		2.0	gal/min
Weight	---	180	lbs
Dimensions	---	24 dia X 36 lg	inches

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 additional information on CPI MPP products contact:

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