

TWT2G7G-500

2.5-7.5GHz 650 Watt (typ) CW TWT Amplifier



MAIN FEATURES

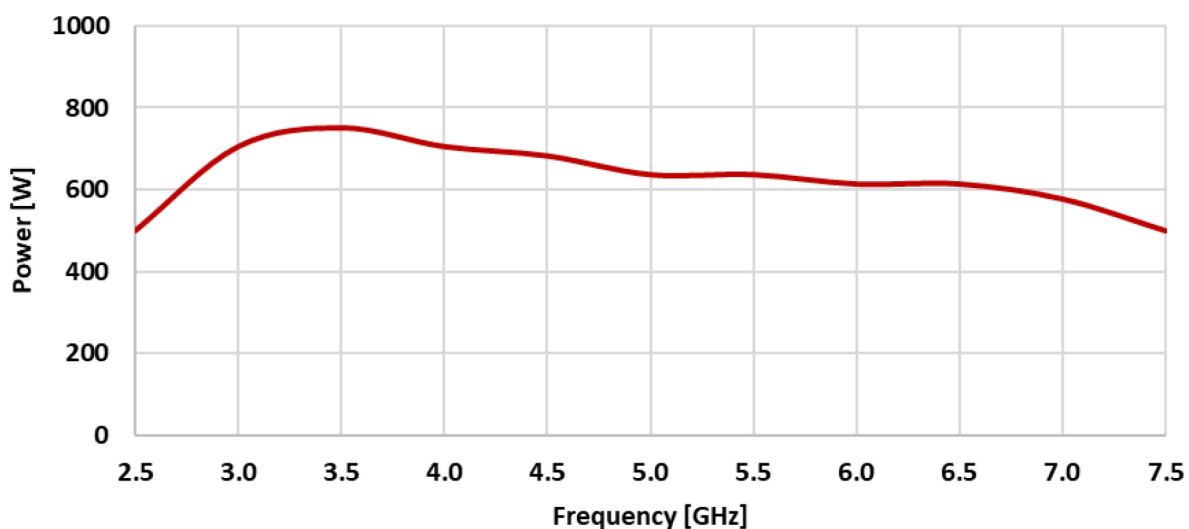
- User Interface
- Rugged, Ultra-Reliable Design
- Ethernet and GPIB Remote Interface
- 3 year warranty (1 Year on the tube)
- Plug and Play Field-Replaceable Power

The TWT2G7G series of CW TWT Amplifier provide outstanding RF performance. These 2.5 to 7.5 GHz TWTA's (traveling wave tube amplifiers) have field proven reliability and industry leading performance. This makes these amplifiers ideal for multiple high frequency high power applications including EMC / Radiated Immunity, Communications, EW, Radar, RF Component Testing, and scientific applications.

Operation safety and ease of use are paramount in Teseq CW TWT amplifier product designs. The TWT2G7G series includes a full complement of RF and hardware protection systems including high VSWR, over-current, voltage and TWT arc protection as well as redundant thermal and airflow sensors to prevent the TWT from overheating.

TWT2G7G series includes a display screen and web page providing instant operational and critical parameter status, as well as built in self-test, advanced fault diagnostics and modular plug and play field replaceable power supplies. This modular design offers ease of service providing quick turn around times. In addition, these amplifiers will log operational hours and any tripped states with a date stamp throughout their life which greatly aids diagnostics.

TWT2G7G-500



Technical Specifications

Frequency Range	2.5 - 7.5GHz
Frequency (min.) GHz	2.5 GHz
Frequency (max.) GHz	7.5 GHz
Psat (min)	500 W
Psat (typ)	650 W
Small Signal Gain	57 dB
Modulation Formats	AM, FM, Pulse
Output VSWR Tolerance	< 3:1
Stability	Unconditional
Output Impedance	50 Ohm
Input VSWR	2:1 (typical)
Output VSWR	2.5:1 (max)
2nd Harmonic	Typ -5dBc / Max -3dBc
Spurious	-30 dBc
Operating Temperature	0°C to +40°C
Non-Operating Temperature	-10°C to +50°C
Humidity	80% Max, non condensing

General Specifications

Safety Interlock	BNC-female
Supply Voltage	"1-Phase: 200-264 V or 3-Phase: 187-230 VLL"
Supply Frequency	47 to 63 Hz
Supply Power (typ.)	3.1 kVA
RF Input Connector	Type N female
RF Output Connector	Type SC Female
Com. Interface	GPIO & Ethernet
Dimensions (WxHxD)	6U, 19 inch, 800mm
Weight kg	47 kg
Cooling System	Air Cooled, Self Contained

Available Variants

Product	Configuration	Item #
TWT2G7G-500-001	Front Panel RF Connectors	3-342004
TWT2G7G-500-002	Rear Panel RF connectors	3-342005