

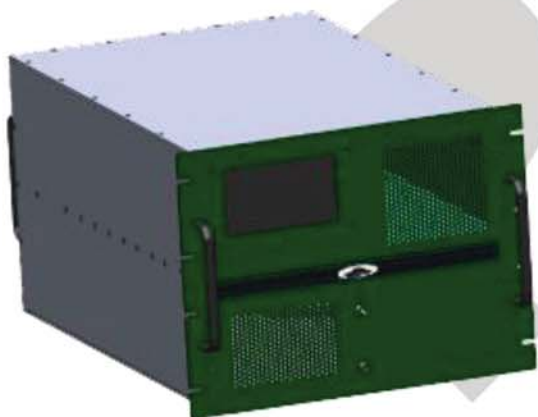


PTWPA-35G40G-250

250W Pulse TWT Amplifier

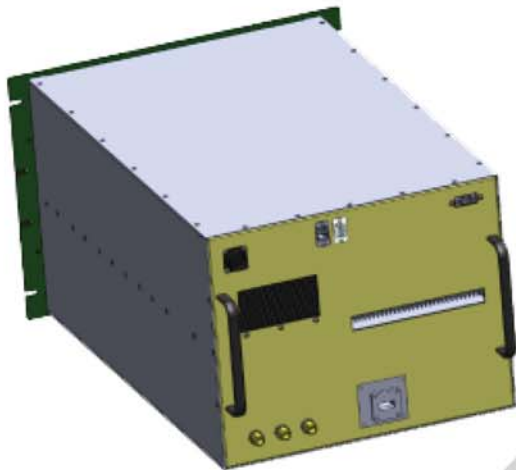
Traveler Wave Tube (TWT) Power RF Amplifier

The PTWPA-35G40G-250 is a TWT 250W (Pulse) RF Amplifier which covers frequency range from 35G to 40GHz. This amplifier can achieve high efficiency operation with proven reliability as is designed with the robust engineering and employment of the most advanced devices and components. The amplifier comes with 1 year warranty including the TWT.



Parameter	Specification
<u>Electrical</u>	
Frequency Range	35-40GHz
Output Power	250W Peak
RF Input Power	0dBm for Saturated Power Out
Gain @ rated power	54dB
Input /Output Impedance	50 ohms(VSWR 2.0:1)
Load VSWR	1.5:1 max
Harmonics	-20dBc
Spurious	-50dBc max.
Pulse Input	TTL. High=Beam-ON, Low=Beam-OFF, 50Ω Input. BNC Female on Front Panel
Pulse Width	250nSec -25uSec
Rise/Fall time	50nSec
Pulse Delay	200nSec
PRF	100Hz-10KHz
Duty Cycle	0-10%
Pulse to Pulse jitter	±20nsec max.
Pulse to Pulse	±0.5dB max.
<u>Stability</u>	
Pulse Droop	0.4dB @ 10uSec pulse max. 0.75dB @ 25uSec pulse max.
Noise power density	-15dBm/MHz
RF Input/Output Connector	WR28, Waveguide flange On Rear Panel
Prime Power	220VAC +/-10%, 50/60 Hz, Single Phase, 3 wires on the Rear Panel
Consumptions	2.0KVA

THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



Parameter	Specification
<u>Mechanical</u>	
Configuration	Racks mounts 19"W x 26.13"D x 17.5"H
Weight	200 Lbs
Cooling System	Air cooled: forced Air Front to Rear, self contained
Shock	MIL-STD-810F, method 516.2
Vibration	MIL-STD-810F, method 514.2
<u>Environmental</u>	
Temperature	0° to 40° C
Non-operating Temp	0° to 60°C
Humidity	95% without condensation
Altitude	5,000 feet

THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



Features [Build-in]

- High Voltage power supplies Over/Under Voltage & Over Currents Protection
- RS 232 & Ethernet Remote Control.
- RF Input / Output Connectors on the Rear Panel.
- Standby/RF_ON, Elapsed Time Metering in hours.
- Filament/Beam Elapsed Time Metering in hours.
- Color TFT Touch screen Display with Front Panel Controls and Indicators.

OPTIONS

001	VSWR Protection against output mismatch.
002	Alternate Prime Power (specify at time of order).
003	USB Remote Control.
004	Forward RF Sample Port Type N Female -50dBc nominal on the Rear Panel [standard] or Front panel.
005	Reflected RF Sample Port Type N Female -50dBc nominal on the Rear Panel [standard] or Front panel.
006	RF Input/Output Connectors on the Rear Panel [Standard], (Specify front or rear at time of order).
007	Internal Systems Diagnostics.
008	Filament/Beam Elapsed Time Metering in hours.
009	RF Safety Interlock, type BNC Connector.
010	Forward/Reflected Power Indication simultaneously on Front Panel display.

THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

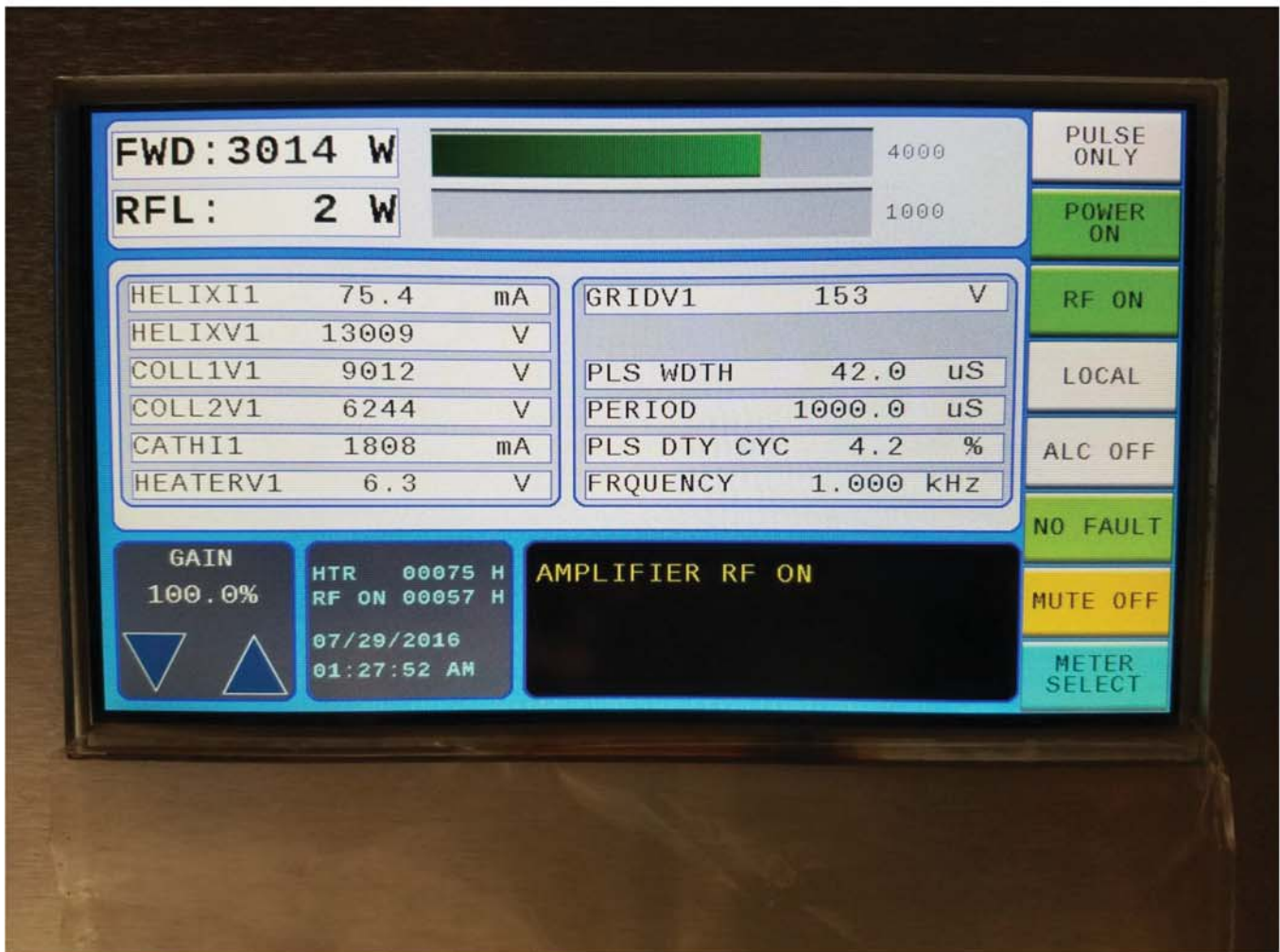


Figure 1. Typical Pulse Amplifier display showing status controls and metering

Distributed by

Reliant EMC LLC

3311 Lewis Ave
Signal Hill, CA 90755
Tel.:(408)9165750

E-Mail: contact@reliantemc.com

Web:www.reliantemc.com

THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.