

1kW L-Band Pulsed Power Amplifier

Features

- Solid State Power Amplifier
- No Heat Sink Required
- Output Port Open/Short circuit protection
VSWR ∞ :1
- Build in Self Test (BIST) Circuitry:

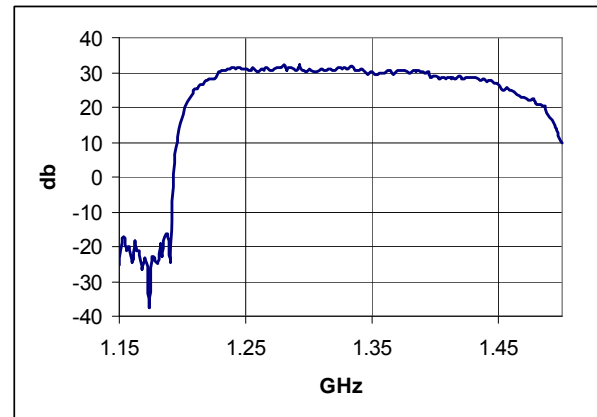
Specifications

- Frequency Range: 1200 to 1400MHz
- Pout: 1.2kW peak output. 1kW typ.
- Flatness: +/- 0.75dBm
- Pin: 29dBm peak min
- Gain: 28dB min, 30dB typ
- Pulse Width: 100uSec
- Duty Cycle: 10% max
- Configuration: Class C, Common base.
- VCC: 28V 1.3mA, 40V 40mA, 50V 160mA
- 10W DC power consumption (with 8uSec 0.33% D/C pulse)
- -40C/85C operation.
- IN/OUT VSWR 1.3:1 max

Description

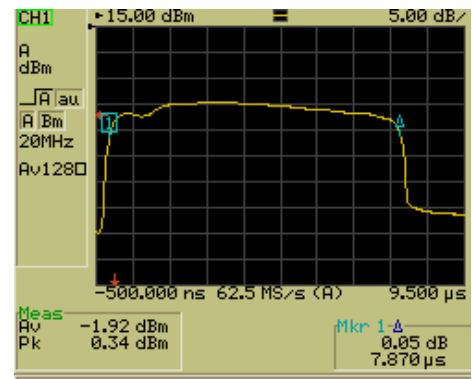
This 1kW pulsed power amplified is designed for L-Band radar applications. The solid state design is compact, efficient, and rugged.

Gain vs. Frequency



Pulse Width Measurement

(through 60 db atten)

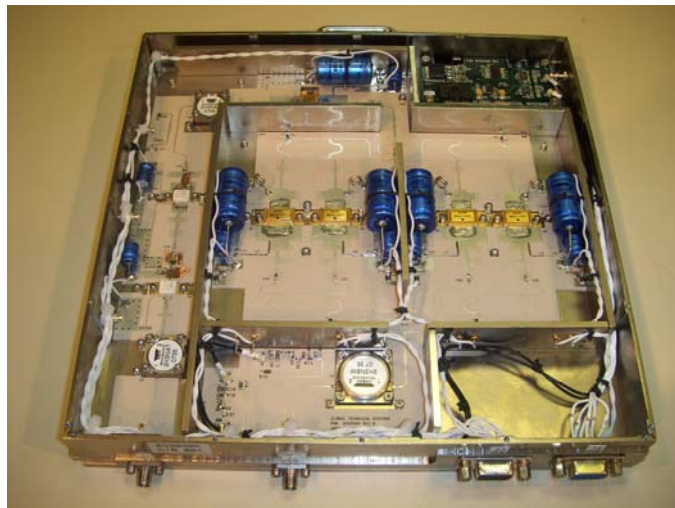


Packaging and I/O

- Input Port : SMA (female)
- Output Port: SMA (male)
- Main Power Supply: 15-pin hi-density D-sub (female)
- BIST Connector: 9-pin D-sub (female)
- Dimensions: 10"x 9.5"x 1.25"
- Weight: 3 lbs 11 oz
- Aluminum Finish : Nickel Plated
- Mounting?

Power and Environmental

- VCC: 28V 1.3mA, 40V 40mA, 50V 160mA, +15V 140mA, -15V 10mA
- 10W DC power consumption (with 8uSec 0.33% D/C pulse)
- Designed for -40C/85C operation



Customization Options

Amplifiers can be adapted to customer needs, including connector types, I/O levels, and power.

Ordering Information

PPA-01 1kW L-Band Pulsed Power Amplifier

About GTS

GTS is an energetic, innovative, and assertive Virginia corporation that specializes in providing technical services and high-tech product solutions in the areas of sensor technology and storage area networks. The amplifier was developed by the Information & Sensor Systems (ISS) Division in St. Petersburg, FL.

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