

**Aumictech**

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Data Sheet

August 15, 2026

IFI

IFI GT825 RF Power Amplifier

IFI GT825 High Power Pulse TWT Amplifier 2.5 To 8 GHz The Instruments for Industry GT825 family covers 2.5 to 8.0 GHz high-power pulse TWT amplifiers. Published GT825-500 rental and T-series literature rates 500 W minimum power, 57 dB minimum saturated gain, TypeNinput, and air-cooled rack packaging used for EMC and EW microwave drive. High-power pulsed RF drive for EMC RS103 style testing, radar and EW transmitter simulation, and TWT amplifier depot service racks in the 2.5 to 8 GHz band. Modular TWT construction for field service access The Instruments for Industry GT825 family covers 2.5 to 8.0 GHz high-power pulse TWT amplifiers. Published GT825-500 rental and T-series literature rates 500 W minimum power, 57 dB minimum saturated gain, TypeNinput, and air-cooled rack packaging used for EMC and EW microwave drive. High-power pulsed RF drive for EMC RS103 style testing, radar and EW transmitter simulation, and TWT amplifier depot service racks in the 2.5 to 8 GHz band. Modular TWT construction for field service access VSWR reflected power foldback protection class



MODEL

IFI GT825

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

GT825

LISTING

<https://aumictechlabs.com/products/gt825-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The IFI GT825 GPS tracker is a versatile solution for real-time location monitoring and tracking. It features a compact design, making it easy to install in vehicles or attach to assets. With geofencing capabilities, users can set up virtual boundaries and receive alerts when the tracker

enters or exits these zones. The GT825 also offers features like motion detection and low battery alerts, ensuring reliable performance. Its solid construction and long battery life make it suitable for a wide range of tracking applications, from fleet management to personal safety.

GT825 Characteristics / Specifications

PARAMETER	VALUE
Model Family	GT825
Frequency Range	2.5 GHz to 8.0 GHz
Input Impedance	50 ohm
Output Impedance	50 ohm
Rf Input Connector	TypeNfemale
Rf Sample Connector	TypeNfemale unless otherwise specified
Rf Output Connector Class	Type SC or 7/16 female up to 8 GHz
Input Vswr	2.0 to 1
Output Vswr	2.5 to 1
Pulse Input	BNC female TTL into 50 ohm
Pulse Width Range	up to CW
Prf Range Standard	up to 100 kHz
Duty Cycle	up to CW subject to TWT limits
Rise Fall Time Nominal	25 ns
Rise Fall Time Maximum	40 ns
Pulse To Pulse Jitter Maximum	plus or minus 5 ns
Pulse Droop	0.5 dB per 100 us 0.1 dB per 10 us
Power Output Stability	0.2 dB pulse to pulse at constant drive and PRF
Pulse On Off Ratio	80 dB
Phase Stability Pulse To Pulse Nominal	plus or minus 1 degree
Spurious Outputs Nominal	less than minus 60 dBc
Operating Temperature	0 C to 50 C
Nonoperating Temperature	minus 40 C to 70 C
Operating Altitude	10000 ft
Humidity	95 percent without condensation

PARAMETER	VALUE
Cooling	air cooled self contained
Modulation Types	AM FM Pulse

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 50 C
Operating Temperature	0 C to 50 C
Humidity	95 percent without condensation
Nonoperating Temperature	minus 40 C to 70 C
Operating Altitude	10000 ft
Cooling	air cooled self contained
Modulation Types	AM FM Pulse

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Model Family: GT825	
Frequency Range: 2.5 GHz to 8.0 GHz	
Minimum Power Output GT825-500: 500 W	
Minimum Saturated Gain GT825-500: 57 dB	
Related GT825-400 P1dB Class: 200 W at 56 dB gain class	
Specifications	
PARAMETER	VALUE
Input Impedance	50 ohm
Output Impedance	50 ohm
Rf Input Connector	TypeNfemale
Rf Sample Connector	TypeNfemale unless otherwise specified
Rf Output Connector Class	Type SC or 7/16 female up to 8 GHz
Input Vswr	2.0 to 1
Output Vswr	2.5 to 1
Pulse Input	BNC female TTL into 50 ohm
Pulse Width Range	up to CW
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Related T825-500 Mains: 3.0 kVA
Related T825-500 Weight: 85 lb
Related T825-500 Size: 10.5 inHx 19 inWx 25.25 inD Notes
Numeric rows from IFI GT825-500 / T825-500 published amplifier tables. Exact power SKU onatagged GT825 unit may be 400 W or 500 W class; confirm faceplate rating.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.