

Stealth Microwave's **SR30825-47** is a solid state GaAs FET amplifier designed for various applications requiring superior gain flatness and high linearity. The P1dB is +47 dBm, the linear gain is 39 dB, and the gain flatness across the band is ± 1.2 dB max. The unit's 3U 19" rack chassis incorporates many standard and optional features, making it suitable for use in a variety of commercial and military applications.



Features

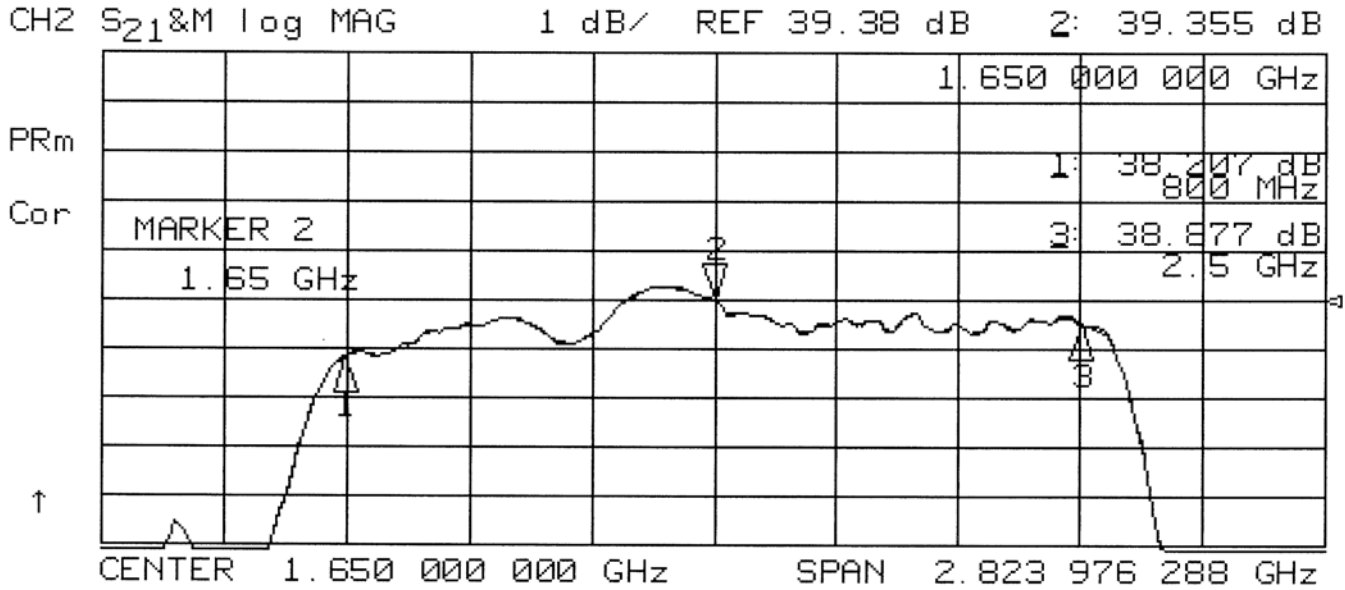
- LED amplifier status and alarm display
- TTL and RS-232 Control/Monitoring interfaces
- Forced-Air cooling with hot swappable fans
- Rear Panel N-Female Connectors

Options

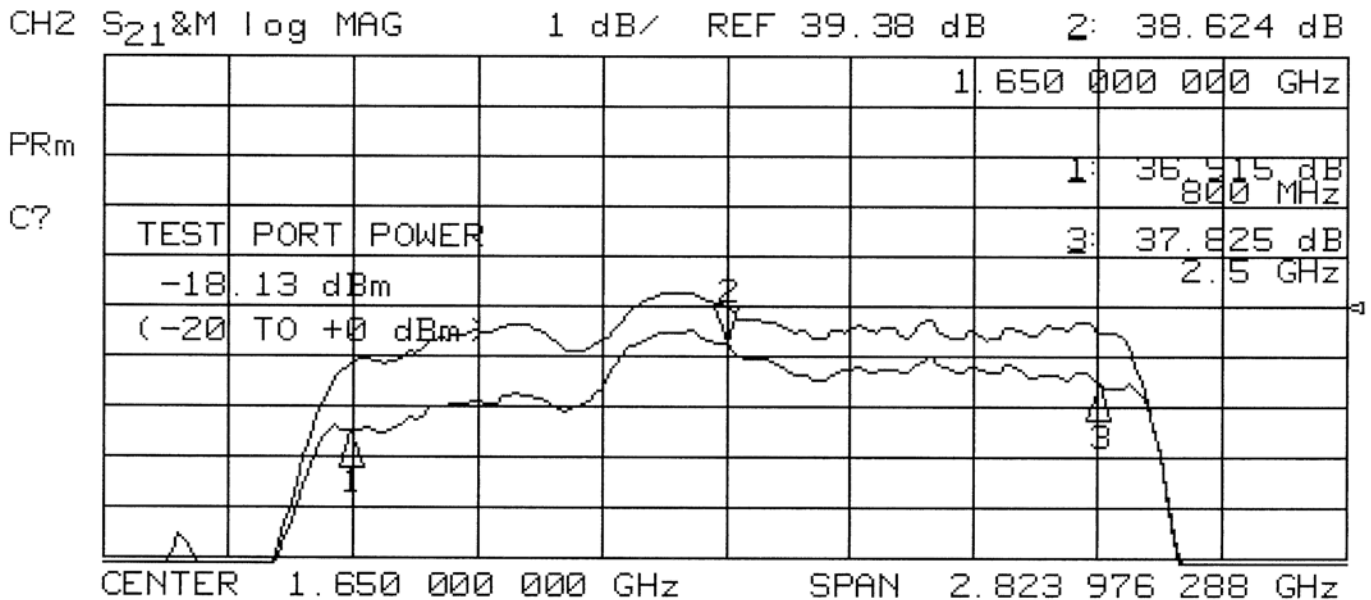
- Front / Rear Panel Connectors
- DC supply available
- Automatic / Manual Gain Control
- High Speed Switching for TDD (1us rise/fall time)
- Alternate RF connectors

Parameter	Specification			
	Min	Typ	Max	Unit
Frequency Range	800		2500	MHz
Pout (P1dB)	46.5	47.5		dBm
Third Order Intercept Point	54	57	60	dBm
Linear Gain	38	39	40	dB
Gain Flatness over Full Band		$\pm .75$		dB
Gain Change over Temperature		$\pm .5$		dB
Input/Output Return Loss	-12	-15		dB
AC Input Voltage	85		264	V
Mechanical Dimensions	19.0 x 16 x 5.25			in.
Operating Temperature (Ambient)	0	-	60	$^{\circ}$ C
Operating Humidity	0	-	95	%
Operating Altitude			30,000	Ft

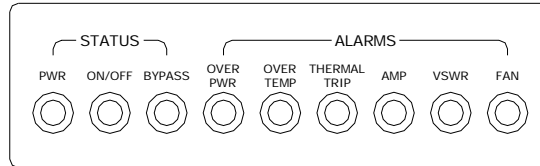
S₂₁ RESPONSE



S₂₁ RESPONSE - P1dB

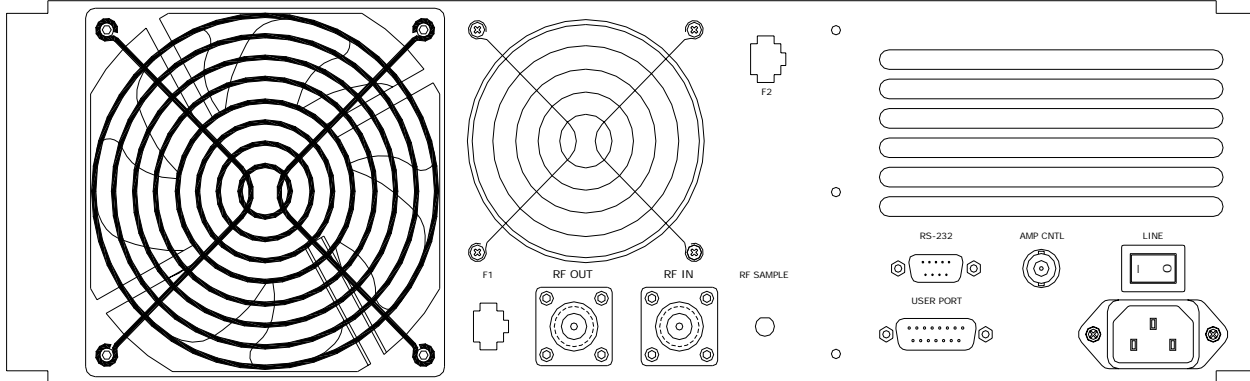


FRONT PANEL DETAIL



Front Panel LED Description

Label	Function
PWR	Line power switched on
ON/OFF	Amplifier is turned on. If amplifier has shut off due to OVER TEMP condition, LED will remain off until module reaches safe temperature
OVER TEMP	Amplifier's temperature exceeds + 75 °C
THERMAL TRIP	Amplifier's temperature exceeds + 95 °C. The unit is shut off and will not turn back on until its temperature drops below + 75 °C
AMP	Amp failure.
VSWR	Excessive output VSWR. Possible antenna problem.
FAN	Fan failure. The fan is either locked or not connected to power.

REAR PANEL DETAIL


Label	Function
RF OUT	50Ω RF output. Refer to attached module data sheet for max output value
RF IN	50Ω RF input. Refer to attached module data sheet for max input value
RF SAMPLE	When equipped, a sample output. Refer to module data sheet for dBr value
F1	Fan 1 power connector (12VDC)
F2	Fan 2 power connector (12VDC)
RS-232	9 Pin D-Sub for RS232 monitoring / control.
USER PORT	15 Pin D-Sub for analog monitoring / control.
AMP CNTL	BNC Connector for TTL on/off control of rack
LINE	Main on/off