

DESCRIPTION

This class AB GaN Rack Mount is designed for both military and commercial applications. It is capable of supporting any signal type and modulation format, including but not limited to 3-4G telecom, WLAN, OFDM, DVB, and CW/AM/FM. These highly versatile units can be custom-configured with an extensive array of monitoring circuitry, control and communication interfaces, and any combination of RF connectors. Custom RF filtering, switching, and multiple PA blocks can be designed in for any system requirement.

**AVAILABLE OPTIONS**

- AC , DC or Dual Power Supplies
- PA and System Redundancy
- Fwd / Reflected Power Monitoring
- High Speed Switching
- Touch Screen Interface
- Monitoring / Control via TTL ,SPI, Ethernet, I²C, and other protocol available

APPLICATIONS

- Military / Commercial Data links
- Telecommunications
- BTS / Repeaters / DAS
- Test and Measurement
- General Purpose Lab Use

TX SPECIFICATIONS

PARAMETER	MIN	TYP	MAX	UNIT
Operating Frequency	1800		1900	MHz
P1dB Power Output	47.0	47.5		dBm
PSat Power Output	47.5	47.5		dBm
Gain	46.0	47.0		dB
Gain Flatness		0.8	1.2	dB
OIP3		61.0		dBm
OIP3 Measurement Conditions	2 Tone @ 34 dBm / Tone, 10 MHz Spacing			--
Input Return Loss	16	18		dB
AC Supply Voltage	85		264	VAC
Power Consumption		227		W
Tx / Rx Switching Time			1.0	uS

RX SPECIFICATIONS

PARAMETER	MIN	TYP	MAX	UNIT
P1dB Power Output	19.0	20.0		dBm
Gain	19.0	20.0		dB
Gain Flatness		0.5	1.0	dB
Noise Figure		2.5	3.0	
OIP3		35.0		dBm
Input Return Loss	8	10		dB
Current Draw		200.0		mA

MECHANICAL

PARAMETER	VALUE	UNIT
Dimensions (L x W x H)	12.115 x 18.94 x 3.47	in.
RF Connectors (Input / Output)	N-F standard, other configurations available	--
Power Connector	IEC 60320-C14 standard, other configurations available	--
Control / Monitoring Connector	Per customer requirement	
Cooling	Forced air standard, TE cooler and fan-less / liquid / other cooling configurations available	--
Mounting	Panel mounting standard, rack slide rails and other configurations available	--

ENVIRONMENTAL / PROTECTIONS

PARAMETER	MIN	MAX	UNIT
Operating Temp. (Housing Temp.)	-40	+85	°C
Storage Temp Range	-60	+100	°C
Humidity Range	0-100		%
Altitude	0-30,000		ft.
Shock / Vibration	MIL-STD-810 and equivalents		--
Max RF Input	3.5		dBm
Load VSWR @ P1dB	Open / Short Output Protection		--
PA Baseplate Shutoff Temperature	User Configurable Alarm / Shutdown		--

OUTLINE DRAWINGS


