

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

RF / ELECTRICAL

PARAMETER	MIN	TYP	MAX	UNIT
Operating Frequency	1250		1350	MHz
P1dB Power Output		47		dBm
PSat Power Output	47	47.5		dBm
Gain	16	17		dB
Gain Flatness		0.3	0.5	dB
OIP3		--		
OIP3 Measurement Conditions		--		--
Input Return Loss	18	20		dB
AC Supply Voltage	85		264	VAC
Power Consumption		112		W
Switching Time			200	nS

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.)	-10	+80	°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	33.5		dBm
Load VSWR @ P1dB	Open / Short Output Protection		--
PA Baseplate Shutoff Temperature	User Configurable Alarm / Shutdown		--

OUTLINE DRAWINGS


