



RACK MOUNT MS1060P50A
1.0~6.0GHz
100 Watt
PULSED HIGH POWER AMPLIFIER SUBSYSTEM

Advantages:

- Operating Frequency :1.0~6.0GHz
- Power Gain:50dB Typical
- Psat:100W Typical
- Supply Voltage:+220VAC
- 50 Ohms Input and Output Matched

ELECTRICAL SPECIFICATIONS @ +220VAC, 25°C, 300 μ S, 50%, 50 Ω

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	1000		6000	MHz
Output Power CW	P _{SAT}		100		Watt
Power Gain @PSAT	G _p		50		dB
Input Power for Rated PSAT	P _{IN}		0		dBm
Input Return Loss	S ₁₁			-10	dB
Power Gain Flatness	Δ G _p		± 4		dB
Third Harmonics@P _{out} =70W	H		-20		dBc
Spurious Signals	Spur		-55		dBc
Gain Adjustment Range(@STEP:1db)	Digital		20		dB
Operating Voltage (1-phase)@50/60Hz	V _{AC}		220		Volt
Power Consumption@100W CW	P _D		1100		Watt

MECHANICAL SPECIFICATIONS

Parameter	Value	Notes
Dimensions (W x H x D) – Bench Top/Rack Mount	482.6 x 177 x 444 mm [19x6.97x17.48 inch] (4U)	Maximum
Weight	25 kg [55.12 lbs]	Maximum
RF Connectors Input	Type-N, Female	
RF Connectors Output	Type-N, Female	
Cooling	Built-in internal forced air cooling system	

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Ambient Temperature	-20		50	°C	
Non-operating Temperature	-45		85	°C	Storage
Relative Humidity (non-condensing)			95	%	

ABSOLUTE MAXIMUM RATING

Input RF drive level without damage	+10 dBm (Max)
VSWR Protection@70W	3:1 @ PA output power will degrade to a safe operation level, and system will still work. >3:1 @ protection will make system shutdown.
Thermal Overload	Power will Gracefully Degrade, when Ambient Temp >85°C



AVAILABLE OPTIONS (Selected options refer to the factory)

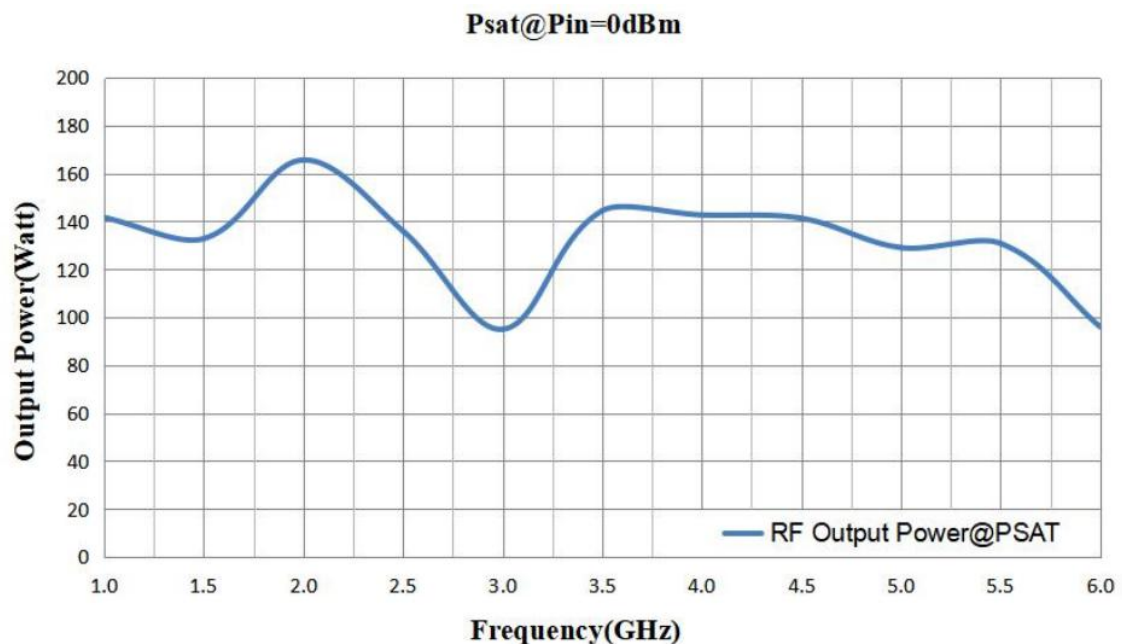
Name	Description	LCD
RS422	Serial management of device /local operator access	D-Sub 9-Pin, Male
Status Monitor	LCD	Digital Display, including FWD/REV Power indication (dBm or Watt scale), Standby mode, Fault indication
Gain Adjustment	Controller,Front Panel	Gain Adjustment
LAN	Serial management of device /local operator access	Internet access

I/O CONNECTOR-Monitor Display or RS422

Pin #	Description	Specifications
1	ENABLE	Amplifier Enable: TTL Logic High (3.3V-5V) (Internally Pulled-Low)
2	TEMP SENSE	Analog voltage relative to temperature@0.5+10mV / °C
3	ALARM	Amplifier Alarm indicator: Normally TTL Low
4	RESERVED	Reserved
5	RS422-T+	Transmit data-TxD
6	RS422-T-	Transmit data-TxD
7	RS422-R+	Transmit data-RxD
8	RS422-R-	Transmit data-RxD
9	GND	GND

TYPICAL PERFORMANCE PLOTS (FOR REFERENCE ONLY)

Output Power (Normal temp. +25±3°C)



Note: Air-cooled heat dissipation.

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