



MODEL MM2080P48AV
2.0~8.0GHz
60 Watt
WIDE BAND RF POWER AMPLIFIER

Advantages:

- Operating Frequency: 2.0~8.0GHz
- Power Gain: 48dB Typical
- P_{SAT}: 60W Typical
- Supply Voltage: +28V
- 50 Ohms Input and Output Matched

ELECTRICAL SPECIFICATIONS @ +28VDC, 25°C, 50Ω

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	2		8	GHz
RF Output Power @Pin=0dBm	PSAT		60		Watt
Power Gain @Pin=0dBm	Gp		48		dB
Power Gain Flatness @Pin=0dBm	Δ Gp		±2		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics @40W	H		-15		dBc
Spurious Signals	Spur		-60		dBc
Switch On/Off@10-90% Time, 1kHz	T _{ON/OFF}		2	5	μs
In/Output Impedance	Impedance		50		Ω
Operating Voltage	V _{DC}	24	28	32	Volt
DC Current @60W	I _{DD}		12		Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	200x100x25 [7.87x3.94x0.98]	mm [inch]	Maximum
Weight	2.2 [4.84]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	SMA, Female		
DC Interface Connector	J29A-25ZK		
Cooling	External Heat sink Required (Not Supplied)		

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Min	Typ	Max	Units	Notes
Ambient Temperature	-40		60	°C	Operating case temperature up to +85°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)
Load VSWR @ P _{OUT} =40W	∞ @ all load phase & amplitude for duration of 1 minute; 3:1 @ all load phase & amplitude continuous.
Over Temperature	95°C @ heatsink [restored @ 60°C]

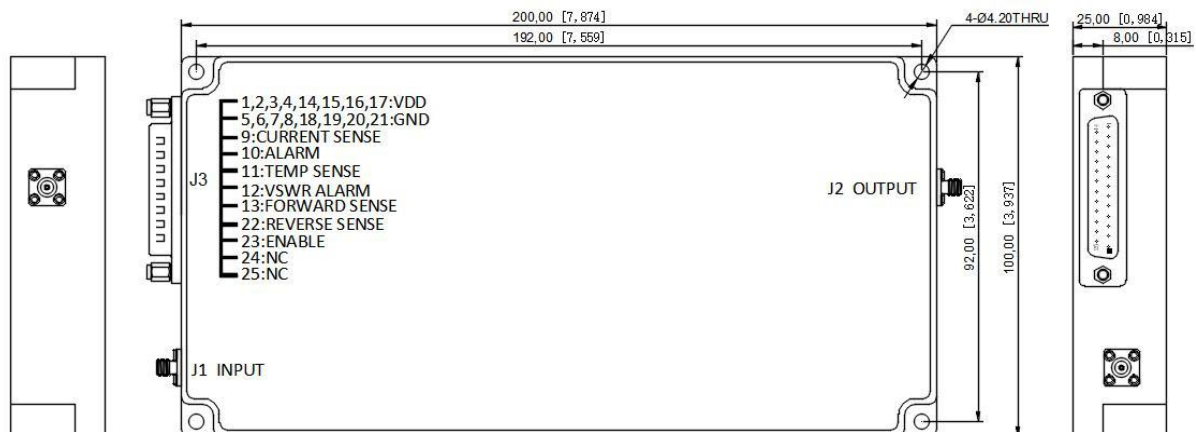
POWER INTERFACE CONNECTOR

D-Sub is on the housing

Pin #	Name	Specifications
1,2,3,4,14,15,16,17	VDD	+28.0 VDC
5,6,7,8,18,19,20,21	GND	Ground
9	CURRENT SENSE	Analog voltage relative to IDD @ 100mV per Ampere
10	ALARM	Amplifier TEMP or CURRENT Alarm indicator: Normally TTL Low
11	TEMP SENSE	Analog voltage relative to Module's Temperature @ 0.5V+10 mV/°C
12	VSWR ALARM	Amplifier Alarm indicator: Normally TTL Low
13	FORWARD SENSE	Analog voltage relative to forward power level
22	REVERSE SENSE	Amplifier voltage relative to reflected power level
23	ENABLE	Amplifier Enable: TTL Logic High (3.3V~5V) (Internally Pulled-Low)
24	NC	Not connection
25	NC	Not connection

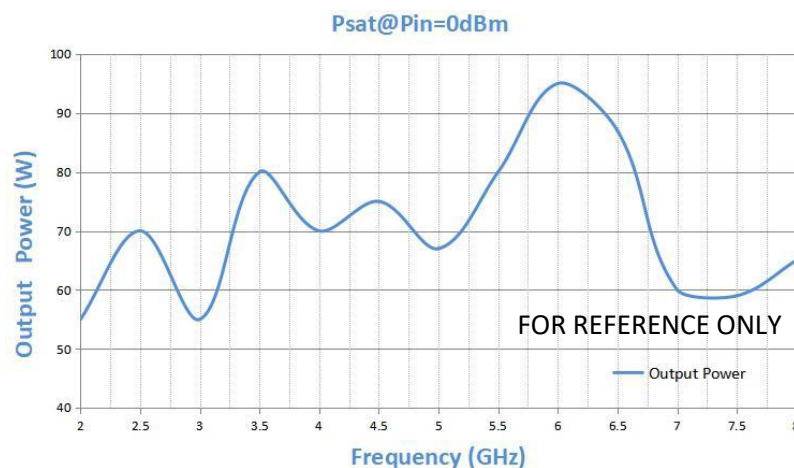
***If you need RS422 or RS485, Please contact the sales for customization.**

OUTLINE DRAWING (All dimensions in mm [inch],dimensional tolerance:±0.2mm(0.008 inch))



TYPICAL PERFORMANCE PLOTS (FOR REFERENCE ONLY)(Please contact the sales for special requirements)

Output Power (Normal temp. +25±3°C)



Note: Adequate heatsink required.

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