

MODEL MM2060P50A
2~6GHz
100 WATTS
WIDE BAND POWER RF AMPLIFIER

Advantages:

- Operating Frequency :2~6GHz
- Power Gain:50dB Typical
- Psat:100W Typical
- Supply Voltage:+28V
- 50 Ohms Input and Output Matched

ELECTRICAL SPECIFICATIONS @ +28.0VDC, 25°C, 50Ω

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	2		6	GHz
RF Output Power @Pin=0dBm	P _{SAT}		100		Watt
Power Gain	G _p		50		dB
Power Gain Flatness	Δ G _p		±3		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics @80W	H		-6		dBc
Spurious Signals	Spur		-55		dBc
Switch On/Off@10-90% Time ,1kHz	T _{ON/OFF}		2	5	μs
In/Output Impedance	Impedance		50		Ω
Operating Voltage	V _{DC}	26	28	30	Volt
DC Current @80W	I _{DD}		25		Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	180x110x25[7.08x4.33x0.98]	mm [inch]	Maximum
Weight	1.5 [3.3]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	N, Female		
DC Interface Connector	Hybrid,D-Sub 25-Pin, Male		
Cooling	External Heatsink Required(Not Supplied)		

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		60	°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} =80W	∞ @ all load phase & amplitude for duration of 1 minute; 3:1 @ all load phase & amplitude continuous.
Over Temperature	85°C @ heatsink [restored @ 60°C]

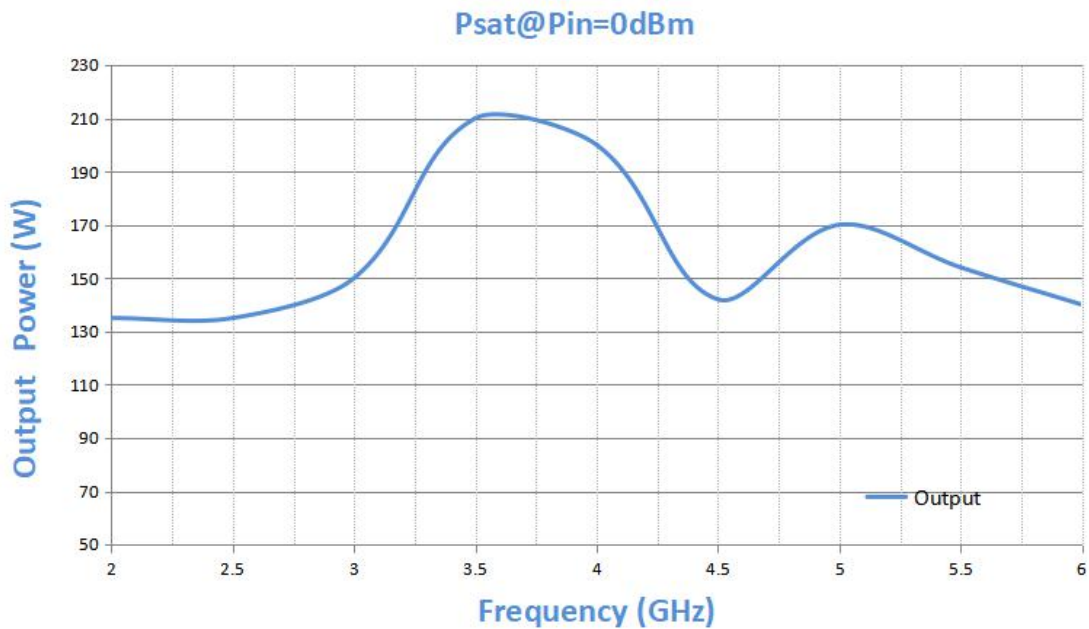
POWER INTERFACE CONNECTOR

Male D-Sub is on the housing

Pin #	Name	Specifications
1~9	VDD	28VDC
10~19	GND	Ground
20	ENABLE	Amplifier Enable: TTL Logic High (3.3V~5V) (Internally Pulled-Low)
21	CURRENT SENSE	Analog voltage relative to IDD @ 100mV per Ampere
23	TEMP SENSE	Analog voltage relative to Module's Temperature @0.5V+10 mV/°C
22,24,25	NC	No electrical connection

TYPICAL PERFORMANCE PLOTS (FOR REFERENCE ONLY)

Output Power (Normal temp. +25±3 °C)



Note: Adequate heatsink required.