



MODEL MM2060P43B
2~6GHz
20 WATTS
WIDE BAND POWER RF AMPLIFIER

Advantages:

- Operating Frequency :2~6GHz
- Power Gain:43dB Typical
- Psat:20W 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}		20		Watt
Power Gain	G _p		43		dB
Power Gain Flatness	Δ G _p		±2		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics @10W	H		-15		dBc
Spurious Signals	Spur		-60		dBc
Switch On/Off@10-90% Time,1kHz	T _{ON/OFF}		2	4	μs
In/Output Impedance	Impedance		50		Ω
Operating Voltage	V _{DC}	24	28	30	Volt
DC Current @20W	I _{DD}		3		Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	160x100x25[6.30x3.94x0.98]	mm [inch]	Maximum
Weight	1.2 [2.64]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	SMA, Female		
DC Interface Connector	D-Sub 9-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} =10W	∞ @ all load phase & amplitude for duration of 1 minute; 3:1 @ all load phase & amplitude continuous.
Over Temperature	85°C @ heatsink [restored @ 60°C]



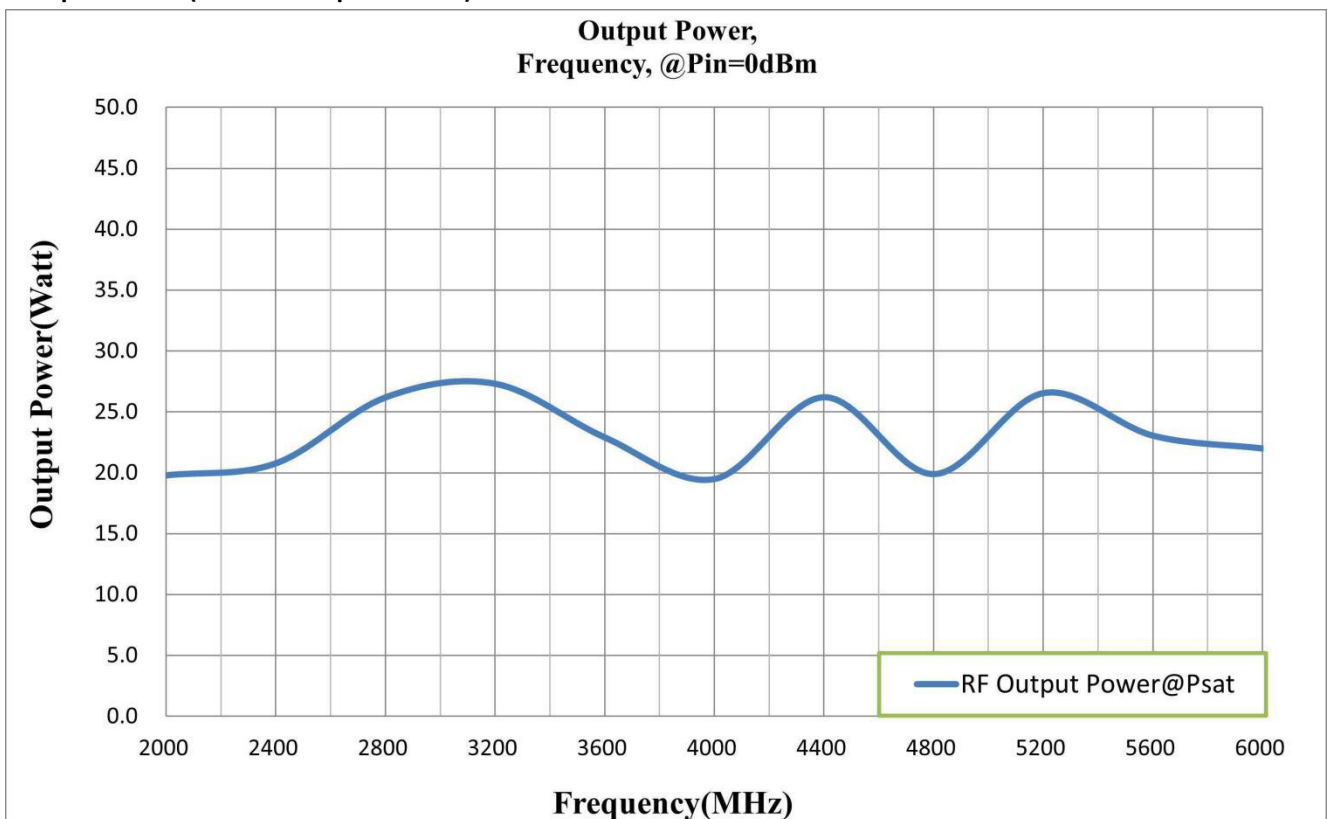
POWER INTERFACE CONNECTOR

Male D-Sub is on the housing

Pin #	Name	Specifications
1	VDD	28VDC
2	VDD	28VDC
3	VDD	28VDC
4	GND	Ground
5	GND	Ground
6	GND	Ground
7	ENABLE	Amplifier Enable: TTL Logic High (3.3V~5V) (Internally Pulled-Low)
8	CURRENT SENSE	Analog voltage relative to I_{DD} @ 100mV per Ampere
9	TEMP SENSE	Analog voltage relative to Module's Temperature @ 0.5V+10 mV/°C

TYPICAL PERFORMANCE PLOTS (FOR REFERENCE ONLY)

Output Power (Normal temp. +25±3°C)



Note: Adequate heatsink required.