



MODEL MM2060P45A
2000~6000MHz
30 WATTS
WIDE BAND POWER RF AMPLIFIER

Advantages:

- Operating Frequency :2000~6000MHz
- Power Gain:45dB Typical
- Psat:30W Min
- Supply Voltage:+28V
- 50 Ohms Input and Output Matched

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

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	2000		6000	MHz
RF Output Power @Pin=0dBm	P _{SAT}	30	45		Watt
Power Gain	G _p	43			dB
Power Gain Flatness	Δ G _p		±3		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics @30W	H		-15		dBc
Spurious Signals	Spur		-55		dBc
Switch On/Off @10-90% Time,1kHz	T _{ON/OFF}		2	5	us
In/Output Impedance	Impedance		50		Ω
Operating Voltage	V _{DC}	24	28	30	Volt
DC Current @30W	I _{DD}		5		Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	150x69x25 [5.91x2.72x0.98]	mm [inch]	Maximum
Weight	1.5 [3.3]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	SMA, Female		
DC Interface Connector	D-Sub 9-Pin, Male		
Cooling	External Heat sink 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 @ POUT =30W	∞ @ all load phase & amplitude for duration of 1 minute; 10:1 @ all load phase & amplitude continuous.
Over Temperature	85°C @ heatsink [restored @ 60°C]

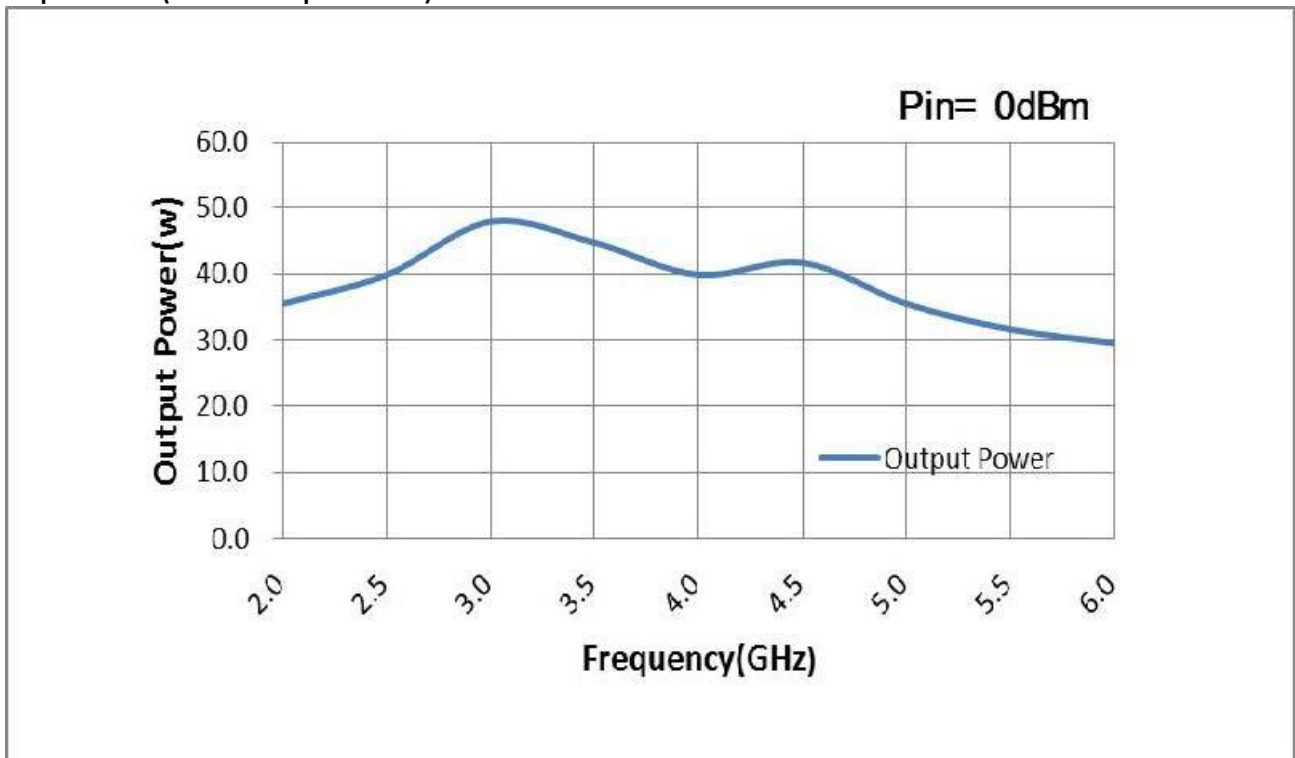
POWER INTERFACE CONNECTOR

Male D-Sub is on the housing

Pin #	Description	Specifications
1	FWD	RMS Forward power detector
2	REV	RMS Reverse power detector
3	CURRENT SENSE	Analog voltage relative to IDD @ 100mV per Ampere
4	TEMP SENSE	Analog voltage relative to Module's Temperature @ 0.5V+10 mV/°C
5	ENABLE	Amplifier Enable: TTL Logic High (3.3V~5V) (Internally Pulled-Low)
6	VDD	28VDC
7	VDD	28VDC
8	GND	Ground
9	GND	Ground

TYPICAL PERFORMANCE PLOTS (FOR REFERENCE ONLY)

Output Power (Normal temp. +25±3°C)



Note: Adequate heatsink required.