



MODEL MM2560P47C
2500~6000MHz
50 WATTS
WIDE BAND POWER RF AMPLIFIER

Advantages:

- Operating Frequency: 2500~6000MHz
- Power Gain: 47dB Typical
- Psat: 50W Typical
- Supply Voltage: +30V
- 50 Ohms Input and Output Matched

ELECTRICAL SPECIFICATIONS @ +30VDC, 25°C, 50Ω

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	2500		6000	MHz
RF Output Power @Pin=0dBm	P _{SAT}		50		Watt
Power Gain	G _p		47		dB
Power Gain Flatness	Δ G _p		±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	us
In/Output Impedance	Impedance		50		Ω
Operating Voltage	V _{DC}	28	30	32	Volt
DC Current @50W	I _{DD}		8		Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	160x100x25 [6.30x3.94x0.98]	mm [inch]	Maximum
Weight	0.8 [1.8]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	SMA, Female		
DC Interface Connector	Hybrid, D-Sub 7-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; 3:1 @ all load phase & amplitude continuous.
Over Temperature	85°C @ heatsink [restored @ 60°C]



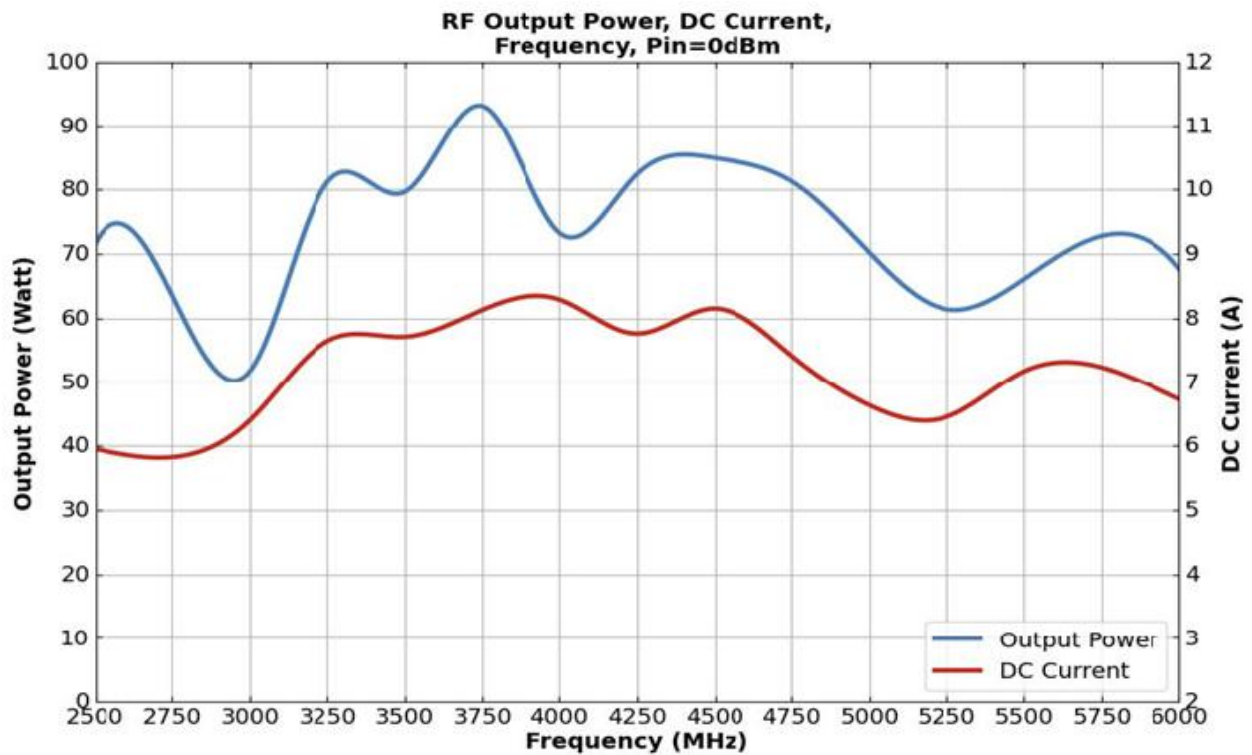
POWER INTERFACE CONNECTOR

Male D-Sub is on the housing

Pin #	Description	Specifications
A1	VDD	30VDC
A2	GND	Ground
1	ENABLE	Amplifier Enable: TTL Logic High (3.3V~5V) (Internally Pulled-Low)
2	TEMP SENSE	Analog voltage relative to Module's Temperature @ 0.5V+10 mV/°C
3	CURRENT SENSE	Analog voltage relative to IDD @ 100mV per Ampere
4	NC	No electrical connection
5	GND	Ground

TYPICAL PERFORMANCE PLOTS (FOR REFERENCE ONLY)

Output Power (Normal temp. +25±3°C)



Note: Adequate heatsink required.