



MODEL MM60180P51B
6~18GHz
126 WATTS
WIDE BAND POWER RF AMPLIFIER

Advantages:

- Operating Frequency :6~18GHz
- Power Gain:51dB Typical
- Psat:126W 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	6		18	GHz
RF Output Power @Pin=0dBm	PSAT		51		dBm
Power Gain	Gp		51		dB
Power Gain Flatness	Δ Gp		±2		dB
Input Return Loss	S11		-10		dB
Harmonics @100W	H		-15		dBc
Spurious Signals	Spur		-55		dBc
In/Output Impedance	Impedance		50		Ω
Operating Voltage	VDC	26	28	30	Volt
DC Current	IDD		42	48	Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	320x230x120[12.6x9.06x4.72]	mm [inch]	Maximum
Weight	10 [22.05]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	N, Female		
DC Interface Connector	J29A-37ZKP		
Cooling	With heatsink,forced air cooling		

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)	5		95	%	

ABSOLUTE MAXIMUM RATING

Input RF drive level without damage	+5 dBm (Max)
Load VSWR @ POUT=80W	2.5:1 @ all load phase & amplitude continuous More than 3:1 may cause PA damage
Over Temperature	80°C @ heatsink

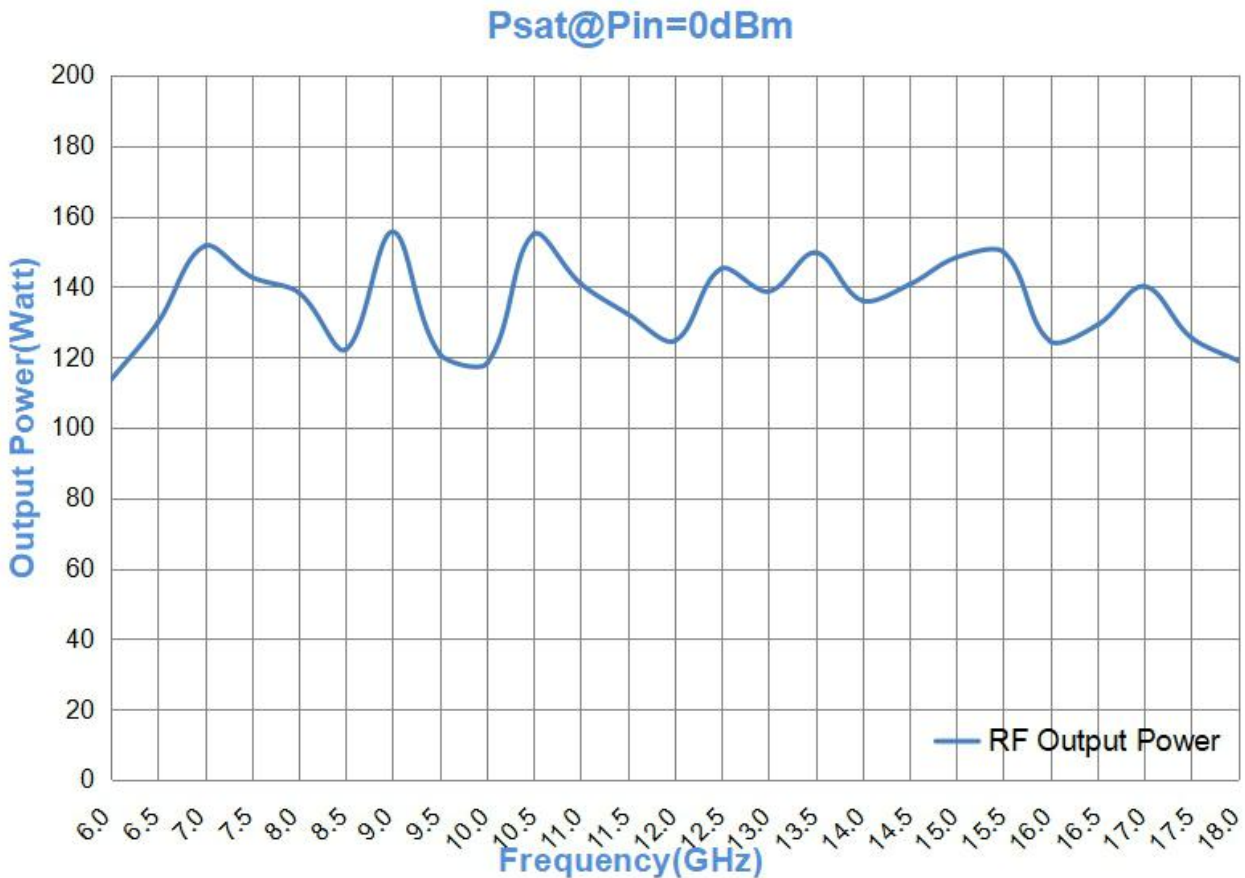
POWER INTERFACE CONNECTOR

Male D-Sub is on the housing

Pin #	Description	Specifications
1-15	VDD	28 VDC
16-31	GND	Ground
32	ENABLE	Amplifier Enable: TTL Logic High (3.3V)
33	GND	Ground
34	CURRENT SENSE	Analog voltage relative to IDD
35	TEMP SENSE	Analog voltage relative to Module's Temperature
36-37	GND	Ground

TYPICAL PERFORMANCE PLOTS (FOR REFERENCE ONLY)

Output Power (Normal temp. +25±3°C)



Note: Adequate heatsink required.