MODEL MM60180P51B
6～18GHz
51 dBm
WIDE BAND POWER RF AMPLIFIER

Advantages:

- Operating Frequency :6～18GHz
- Power Gain:51dB Typical
- Psat:51dBm 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	P_{SAT}		51		dBm
Power Gain @P_{SAT}	G_p		51		dB
Power Gain Flatness	Δ G_p		±2		dB
Input Return Loss	S_{11}		-10		dB
Harmonics @100W	H		-15		dBc
Spurious Signals	Spur		-55		dBc
In/Output Impedance	Impedance		50		Ω
Operating Voltage	V_{DC}	26	28	30	Volt
DC Current	I_{DD}		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 =70W	2.5:1 @ all load phase & amplitude continuous More than 3:1 may cause PA damage
Over Temperature	80°C @ heatsink

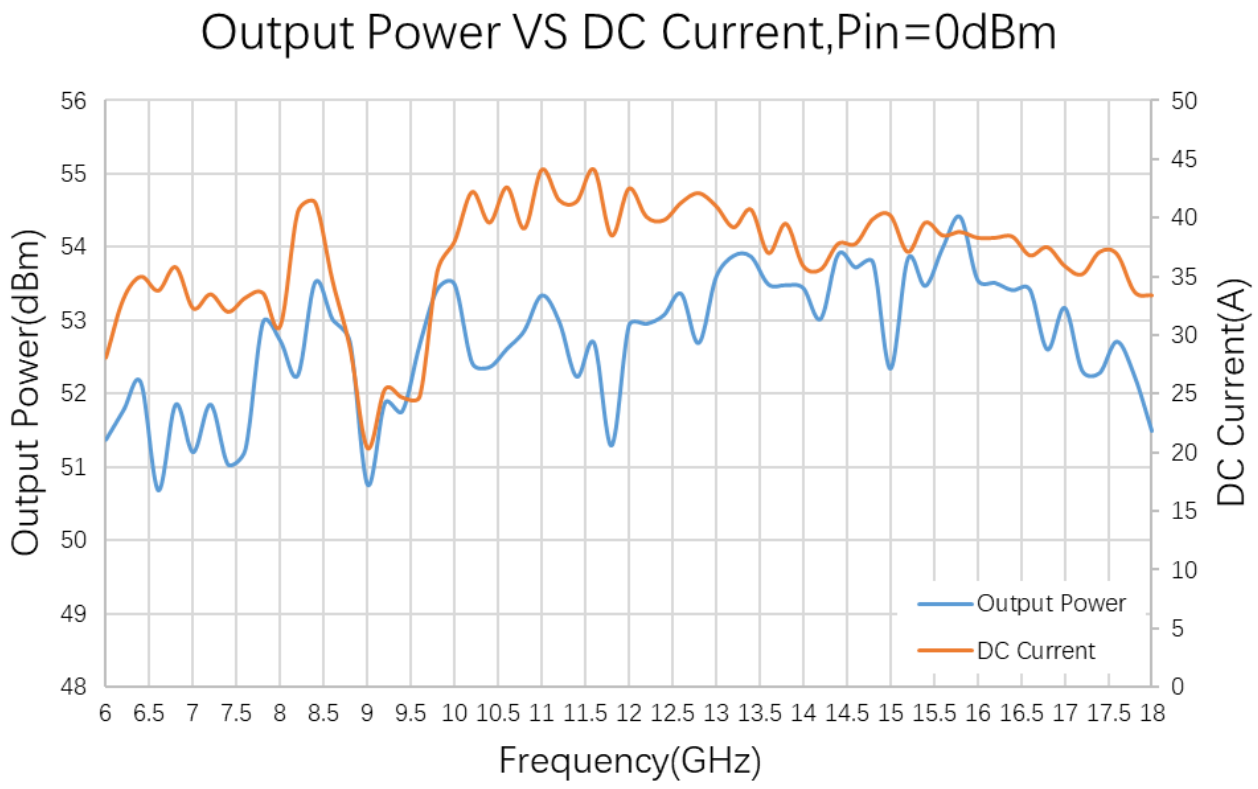
POWER INTERFACE CONNECTOR

Male D-Sub is on the housing

Pin #	Description	Specifications
1-15	VDD	28 V
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	RESET	It is usually connected to a high-impedance state,and to a low level (0V) when it is necessary to cancel standing wave protection
37	ALARMS	TTL Logic High (2V~3V)

TYPICAL PERFORMANCE PLOTS (FOR REFERENCE ONLY)

Output Power (Normal temp. +25±3℃)



Note: Adequate heatsink required.