

RACK MOUNT MS60180P47A
6000 ~ 18000MHz
50 WATTS
WIDE BAND POWER AMPLIFIER SUBSYSTEM

Advantages:

- Operating Frequency :6000~18000MHz
- Power Gain:47dB Typical
- Psat:50W Typical
- Supply Voltage:+220VAC
- 50 Ohms Input and Output Matched

ELECTRICAL SPECIFICATIONS @ +220VAC, 25°C, 50Ω

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	6000		18000	MHz
RF Output Power @Pin=0dBm	PsAT		50		Watt
Power Gain @PsAT	Gp		47		dB
Power Gain Flatness	ΔGp		± 2.5		dB
Input Return Loss	S11			-10	dB
Harmonics @Pout=30W	H		-20		dBc
Spurious Signals@Pout=30W	Spur		-60		dBc
Input/Output Impedance	Impedance		50		dBc
Operating Voltage (Single-phase)	VAC	180	220	240	Volt
Power Consumption@Pout =50W CW	PD		600		Watt

MECHANICAL SPECIFICATIONS

Parameter	Value	Notes
Dimensions (W x H x D) – Bench Top/Rack Mount	482.6 x 88.1 x 445 mm [19x3.5x17.5 inch] (2U)	Maximum
Weight	20kg [44 lbs]	Maximum
RF Connectors Input	Type-SMA, Female	
RF Connectors Output	Type-SMA, Female	
Cooling	Built-in internal forced air-cooling system	

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Ambient Temperature	-20		50	°C	
Non-operating Temperature	-45		85	°C	Storage
Relative Humidity (non-condensing)			95	%	

ABSOLUTE MAXIMUM RATING

Input RF drive level without damage	+5 dBm (Max)
VSWR Protection@30W	3:1 @ PA output power will degrade to a safe operation level, and system will still work. >3:1 @ protection will make system shutdown.
Thermal Overload	Power will Gracefully Degrade, when Ambient Temp >85°C

AVAILABLE OPTIONS (Selected options refer to the factory)

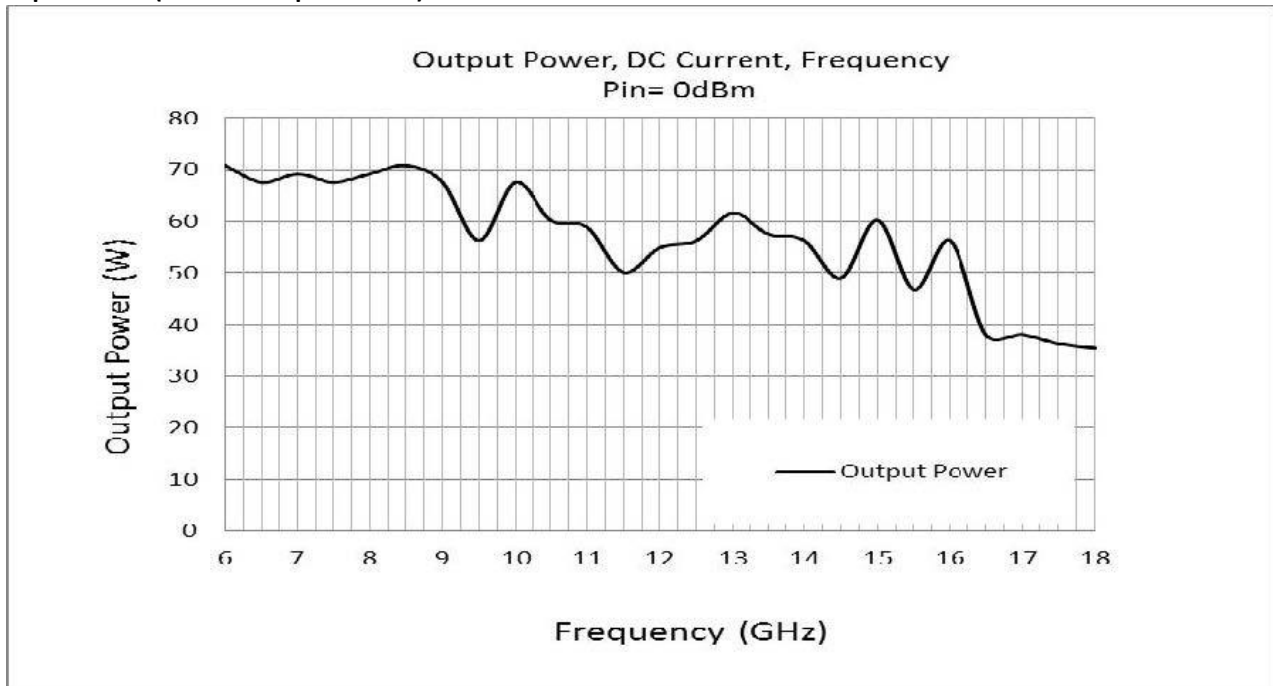
Name	Description	LCD
RS422	Serial management of device /local operator access	D-Sub 9-Pin, Male
Status Monitor	LCD Controller	Digital Display, including FWD/REV Power indication (dBm or Watt scale), Standby mode, Fault indication
WAN	Serial management of device /local operator access	Internet access

I/O CONNECTOR-Monitor Display or RS422

Pin #	Description	Specifications
1	ENABLE	Amplifier Enable: TTL Logic High (3.3V-5V) (Internally Pulled-Low)
2	TEMP SENSE	Analog voltage relative to temperature@0.5V+10mV /°C
3	ALARM	Amplifier Alarm indicator: Normally TTL Low
4	Reserved	Reserved
5	RS422-T+	Transmit data-TxD
6	RS422-T-	Transmit data-TxD
7	RS422-R+	Transmit data-RxD
8	RS422-R-	Transmit data-RxD
9	GND	GND

TYPICAL PERFORMANCE PLOTS (FOR REFERENCE ONLY)

Output Power (Normal temp. +25±3°C)



Note: Air-cooled heat dissipation.