

# M5158GP30 5140 – 5880 MHz / 30 Watts



## ELECTRICAL SPECIFICATIONS @ +28V<sub>DC</sub>, 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	5140		5880	MHz
Output Power CW	P <sub>SAT</sub>	30			Watt
Input power @ Rated P <sub>SAT</sub>	P <sub>IN</sub>		0		dBm
Power Gain Flatness @ Rated P <sub>SAT</sub>	ΔG			±1.5	dB
Input Return loss	S <sub>11</sub>			-10	dB
Third Order Intercept Point 2-Tone @ 36dBm/Tone, 100KHz Spacing	IP3		+48		dBm
Harmonics @ P <sub>out</sub> = 10W	2 <sup>nd</sup>		-20		dBc
Spurious Signals	S <sub>PUR</sub>			-60	dBc
Noise Figure	NF		10		dB
Operating Voltage	V <sub>DC</sub>		28		Volt
Current Consumption @ Rated P <sub>OUT</sub> = 30W	I <sub>DD</sub>		8		Amp

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit	Limits
Operating Ambient Temperature	T <sub>A</sub>	-40		+50	°C	
None-operating Temperature	T <sub>STG</sub>	-40		+75	°C	
Relative humidity (non-condensing)	RH			95	%	

## LIMITS

Parameter	Value	Limits
Input RF drive level without damage	+5dBm	Max
Thermal Overload	85°C Shutdown	Max

## MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	175.3 x 91.5 x 27	mm	Max
Weight	0.9	Kg	Typ
RF Connectors In/Out	Input : SMA (Female) / Output : SMA (Female)		
DC / Shutdown	D-Sub, 9Pin, Male		
Cooling	External Heatsink		

## DC CONNECTOR- D-Sub, 9Pin, Male

Pin #	Description	Specifications
1,2	N/C	Not Connection
3,4	N/C	Not Connection
5	Mute	Enable : TTL "Low"
6,7	VDD	+24V <sub>DC</sub>
8,9	GND	Ground

## Outline Drawing

