

SPEC SHEET

SM2122-51LD

2110 MHz to 2170 MHz

POWER AMPLIFIERS



Specifications

	Min	Typ	Max	Unit
RF Frequency	2110		2170	MHz
P1dB Power Output	50.5	51		dBm
Linear Gain		45 ±1		dB
Gain Flatness Over Band		±1		dB
Gain Change Over Temp		±1		dB
Input Return Loss			-18	dB
Output Return Loss			-18	dB

Operating Characteristics

	Min	Typ	Max	Unit
Supply Voltage		28		VDC
Operating Current Draw		5.5		A
Quiescent Current Draw		1.8		A

Featured and Options

Options:
 TTL on/off
 Heatsink
 Features:
 Thermal Monitor
 Forward Power Detection

Environmental Ratings

	Min	Typ	Max	Unit
Operating Temperature	-30		85	°C
Operating Humidity		95%		
Operating Altitude		10000		Ft

Connectivity

RF Input Connector SMA F
 RF Output Connector SMA F

Pin Table

Pin	Value	Description
1	+5V = on / 0V = off (if equipped)	TTL On/Off
2	Set to 3.35 V @ 40dBm of CW reflected power Detector Slope: 60 mV / Db	Reflected power detection
3	---	GND
4	Temp in deg C = (Voltage on pin - .500)*100 e.g. .90 V = 40 deg C	Temp
5	Set to 4.00 V @ 52 dBm of CW output power into 50 ? Detector Slope: 60 mV / dB	Forward Power Detection
RF Input	+8 dBm (max.)	Input Connector (SMA Female)
RF Output	+ 52 dBm @ P1dB (typ.)	Output Connector (SMA Female)

Notes

