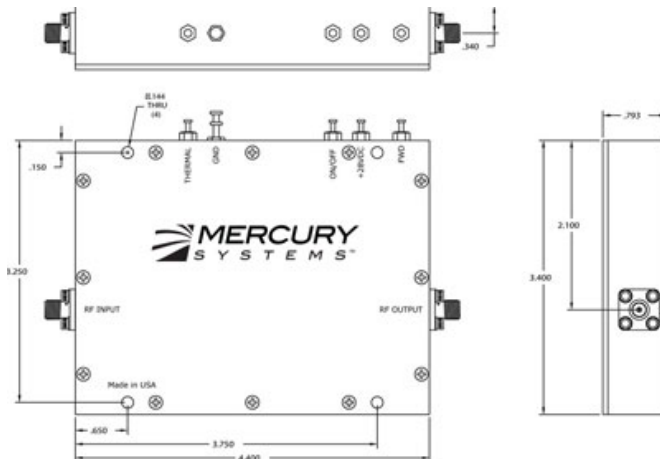
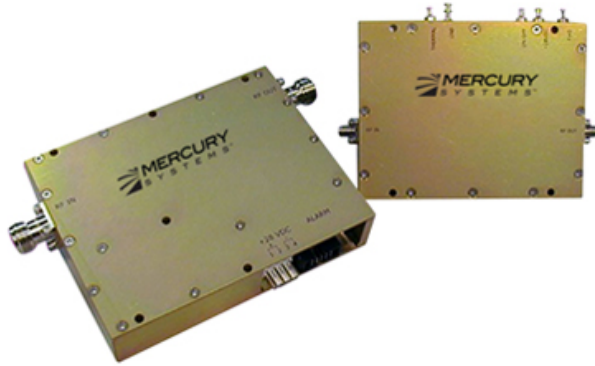


SM1920-51LD

1900 MHz to 2000 MHz

POWER AMPLIFIERS



Specifications

	Min	Typ	Max	Unit
RF Frequency	1900		2000	MHz
P1dB Power Output	50.5	51		dBm
PSat Power Output		52		dBm
Linear Gain		45 ±1		dB
Gain Flatness Over Band		±1		dB
Gain Change Over Temp		±1		dB
Third Order Intercept (OIP3)		N/A		
Input Return Loss			-16	dB

Operating Characteristics

	Min	Typ	Max	Unit
Supply Voltage	26	28	30	VDC
Operating Current Draw			11	A

Pin Table

Pin	Value	Description
1	0V or TTL Low = OFF / TTL High = ON	TTL On/Off
2	Set to 3.35 V @ 40dBm of CW reflected power , Detector Slope = 60mV / dB	REV Power Detection
3		GND
4	Temp in deg C = (Voltage on pin - .500)*100	Temp
5	Set to 4.00 V @ P1dB (CW) into 50 Ω, Detector Slope: 60 mV/dB	FWD Power Detection

Featured and Options

Options:
TTL on/off
Fan

Heatsink

Features:

Forward Power Detection

Notes

Environmental Ratings

	Min	Typ	Max	Unit
Storage Temperature	-40		85	°C
Operating Temperature	-20		85	°C
Automatic Shut Off Temp		90		°C
Operating Humidity		95%		
Operating Altitude		30000		Ft

Connectivity

RF Input Connector	SMA F
RF Output Connector	SMA F
Control/Monitoring Connector	7W2 D-Sub Male



MERCURY COMMERCIAL ELECTRONICS

Microwave RF Components | Hudson, NH | (603) 546-4100 | rf.mrcy.com
Specifications subject to change without notice

[Request a Quote](#) | [Ask an Engineer](#)  

