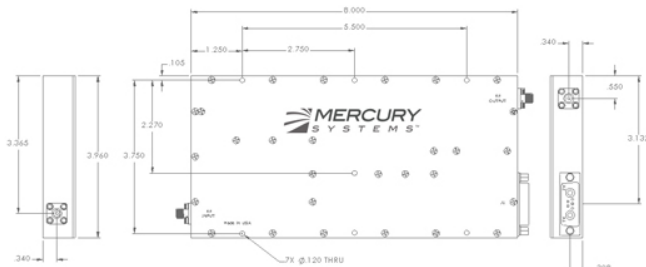


# SM08596-51LD

## 850 MHz to 960 MHz

### POWER AMPLIFIERS



### Featured and Options

- Options:  
 TTL on/off  
 Fan  
 Heatsink  
 Features:  
 Forward Power Detection

### 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

### Specifications

	Min	Typ	Max	Unit
RF Frequency	850		960	MHz
P1dB Power Output	50	51		dBm
PSat Power Output		51.5		dBm
Linear Gain		45 ±1		dB
Gain Flatness Over Band		±1		dB
Gain Change Over Temp		±1		dB
Third Order Intercept (OIP3)		N/A		dBm
Input Return Loss			-16	dB
Noise Figure			10	dB
Harmonics @ P1dB		-45		dBc
Spurious Signals		-65	-60	dBc

### Operating Characteristics

	Min	Typ	Max	Unit
Supply Voltage	26	28	30	VDC
Operating Current Draw			11	A
Quiescent Current Draw		0.2		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 ?, Detector Slope: 60 mV/dB	FWD Power Detection

### Notes



