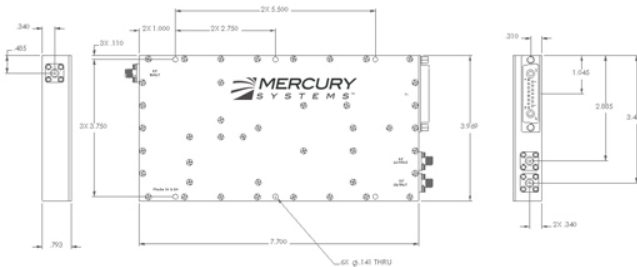


SM1923-47

1900 MHz to 2300 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	17W2 D-Sub Male

Specifications

	Min	Typ	Max	Unit
RF Frequency	1900		2300	MHz
P1dB Power Output	47	47.5		dBm
Linear Gain		55 ±1		dB
Gain Flatness Over Band		±1		dB
Gain Change Over Temp		±1		dB
Third Order Intercept (OIP3)		59		dB
Input Return Loss			-16	dB

Operating Characteristics

	Min	Typ	Max	Unit
Supply Voltage	11	12	13	VDC
Operating Current Draw		15	16	A

Pin Table

Pin	Value	Description
1	0V or TTL Low = OFF / TTL High = ON	TTL On/Off
6	Set to 3.35 V @ 40dBm of CW reflected power, Detector Slope = 60mV / dB	REV Power Detection
7	Set to 4.00 V @ P1dB (CW) into 50 Ω, Detector Slope: 60 mV/dB	FWD Power Detection

Notes



MERCURY COMMERCIAL ELECTRONICS

