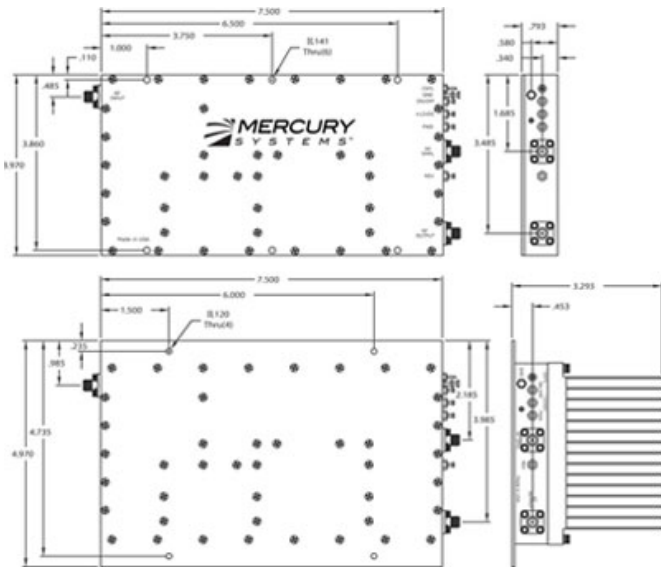
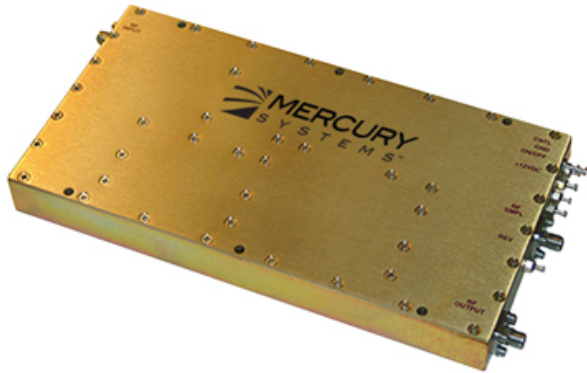


# SM4450-43L

## 4400 MHz to 5000 MHz

### POWER AMPLIFIERS



### Featured and Options

- Options:  
 TTL on/off  
 Fan  
 Heatsink
- Features:  
 Over Voltage Protection  
 Thermal Monitor  
 Forward Power Detection

### Environmental Ratings

	Min	Typ	Max	Unit
Operating Temperature	0		55	°C
Operating Humidity		95%		
Operating Altitude		10000		Ft

### Connectivity

RF Input Connector SMA F

### Specifications

	Min	Typ	Max	Unit
RF Frequency	4400		5000	MHz
P1dB Power Output	43	43.5		dBm
PSat Power Output	44			dBm
Linear Gain		55 ±1		dB
Gain Flatness Over Band		±1		dB
Gain Change Over Temp		±1		dB
Third Order Intercept (OIP3)		62		dBm
Input Return Loss			-16	dB
Output Return Loss			-16	dB

### Operating Characteristics

	Min	Typ	Max	Unit
Supply Voltage		12		VDC
Operating Current Draw		9.2		A

### Pin Table

Pin	Value	Description
RF Input	- 7 dBm (max.)	Input Connector (SMA Female)
RF OUTPUT	+ 43 dBm @ P1dB (min.)	Output Connector (SMA Female)
RF SAMPLE	30 dB	Sample RF Port ( SMA Female )
GND	---	Ground Turret
FWD	+ 39 dBm Output Power ? + 5.0 Volts	Forward Power Detector
REV	? VSWR @ + 39 dBm ? + 4.0 Volts	Reverse Power Detector
+12VDC	+ 12 Volts @ 9.2 Amperes. (operational)	DC Input Voltage
On/Off	0 Volts = Off, +5 Volts = On	TTL Logic On/Off
CNTL	Rates up to 100 kHz	TTL Pulse Control

### Notes



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

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