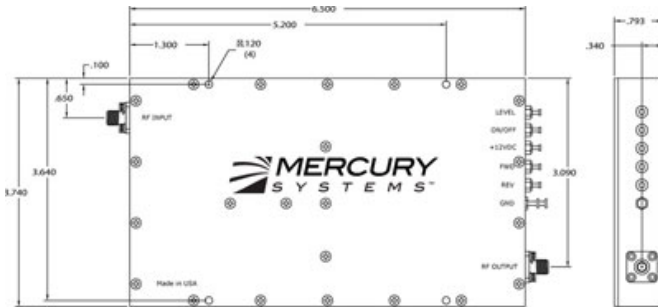
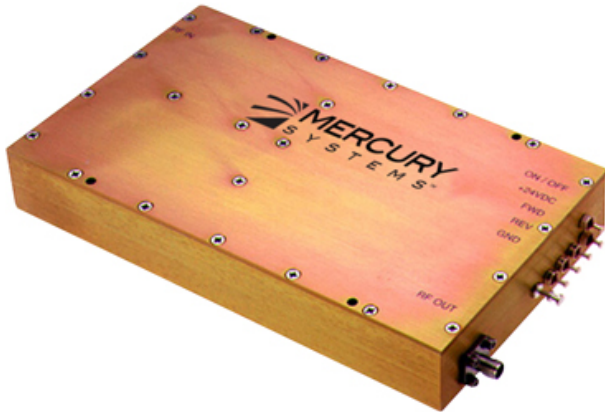


SPEC SHEET

SM1822-44

1800 MHz to 2200 MHz

POWER AMPLIFIERS



Specifications

	Min	Typ	Max	Unit
RF Frequency	1800		2200	MHz
P1dB Power Output		44		dBm
Linear Gain		45 ±1		dB
Gain Flatness Over Band		±1		dB
Gain Change Over Temp		±1		dB
Third Order Intercept (OIP3)		55		dBm
Input Return Loss			-14	dB
Output Return Loss			-14	dB

Operating Characteristics

	Min	Typ	Max	Unit
Supply Voltage		12		VDC
Operating Current Draw		6.9		A

Pin Table

Pin	Value	Description
RF Input	0 dBm typ.	Input Connector (SMA Female)
RF Output	+ 44 dBm @ P1dB	Output Connector (SMA Female)
GND	---	Ground Turret
REV	? VSWR @ + 44 dBm ? + 5 Volts	Reverse Power Detector
FWD	+ 44 dBm Output Power ? + 5.0 Volts	Forward Power Detector
+12VDC	+ 12 Volts @ 6.9 Amperes	DC Input Voltage
On/Off	0 Volts = Off, +5 Volts = On	TTL Logic On/Off
Level	0 Volts = 0 dBr, + 5 Volts ? - 20 dBr	Voltage Variable Attenuator (VVA)

Featured and Options

Options:
TTL on/off
Heatsink

Features:
Over Voltage Protection
Reverse Voltage Protection
Thermal Monitor
Forward Power Detection

Environmental Ratings

	Min	Typ	Max	Unit
Operating Temperature	-20		85	°C
Operating Humidity		95%		
Operating Altitude		10000		Ft

Connectivity

RF Input Connector	SMA F
RF Output Connector	SMA F

Notes



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

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

