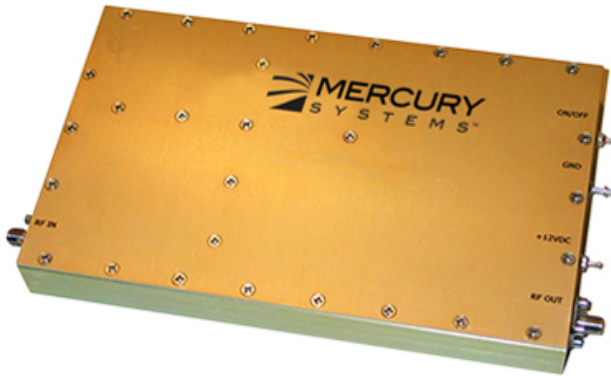


SM1720-42

1700 MHz to 2000 MHz

POWER AMPLIFIERS



Specifications

	Min	Typ	Max	Unit
RF Frequency	1700		2000	MHz
P1dB Power Output		42		dBm
Linear Gain		50 $\pm$ 1		dB
Gain Flatness Over Band		$\pm$ 1		dB
Gain Change Over Temp		$\pm$ 1		dB
Third Order Intercept (OIP3)		53		dBm
Input Return Loss			-14	dB
Output Return Loss			-14	dB

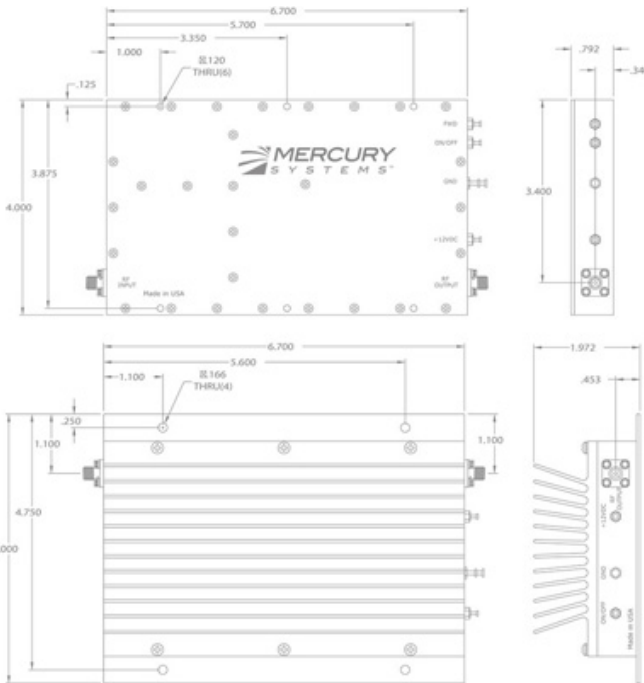
Operating Characteristics

	Min	Typ	Max	Unit
Supply Voltage		12		VDC
Operating Current Draw		6.6		A

Pin Table

Pin	Value	Description
RF Input	- 6 dBm typ.	Input Connector (SMA Female)
RF Output	+ 42 dBm @ P1dB	Output Connector (SMA Female)
GND	---	Ground Turret
+12VDC	+ 12 Volts @ 6.0 Amperes (typ.)	DC Input Voltage
On/Off	0 Volts = Off, +5 Volts = On	TTL Logic On/Off

Notes



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	0		55	°C
Operating Humidity		95%		
Operating Altitude		10000		Ft

Connectivity

RF Input Connector	SMA F
RF Output Connector	SMA F



MERCURY COMMERCIAL ELECTRONICS

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Specifications subject to change without notice

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