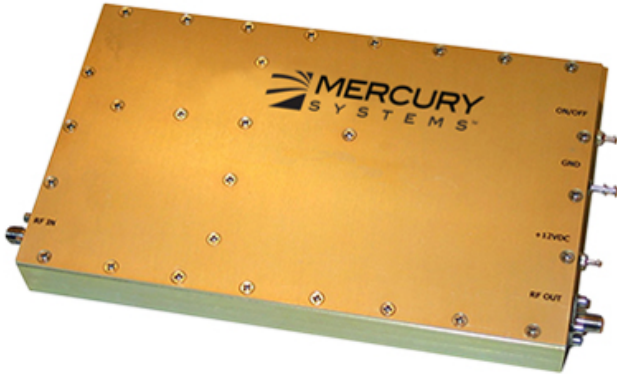


SM1720-42

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 ±1 | | dB |
| Gain Flatness Over Band | | ±1 | | dB |
| Gain Change Over Temp | | ±1 | | dB |
| Third Order Intercept (OIP3) | | 53 | | dBm |
| Input Return Loss | | | -14 | dB |
| Output Return Loss | | | -14 | dB |

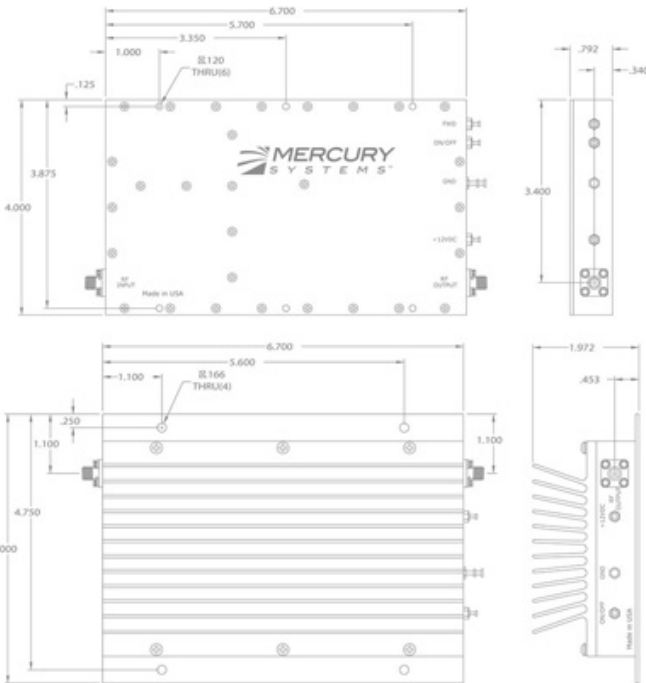
Operating Characteristics

| | 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 |



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

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

