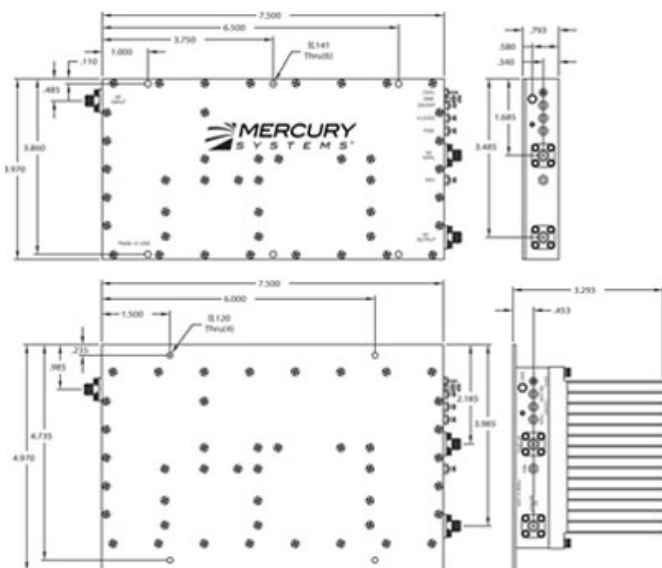


## POWER AMPLIFIERS



## Forward Power Detection

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

## RF Input Connector

|                              | 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   |

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

| 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 dBr                                     | Sample RF Port ( SMA Female ) |
| GND       | ---                                        | Ground Turret                 |
| FWD       | + 39 dBm Output Power ?<br>+ 5.0 Volts     | Forward Power Detector        |
| REV       | ? VSWR @ + 39 dBm ? +<br>4.0 Volts         | Reverse Power Detector        |
| +12VDC    | + 12 Volts @ 9.2 Amperes.<br>(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             |



MERCURY COMMERCIAL ELECTRONICS

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Specifications subject to change without notice

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