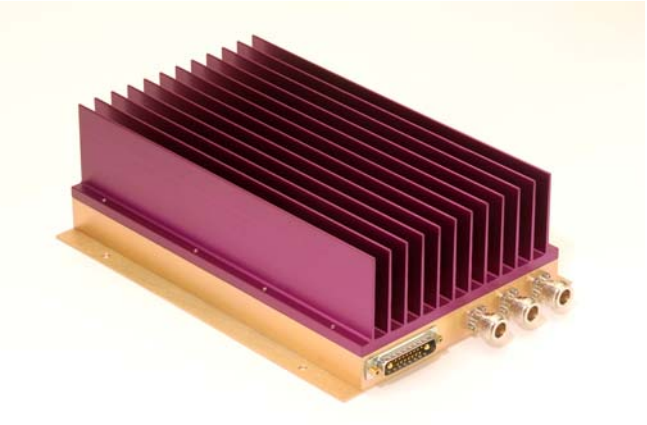
Stealth Microwave
INCORPORATED

Model SM2325-53LD2

2300-2500 MHz
200 Watt Peak Power Amplifier

The **SM2325-53LD2** is a 2300-2500 MHz LDMOS amplifier designed for wireless communications and RF heating applications in medical devices.



Features

- Mis-Match Protected
- Single Power Supply
- Temperature Compensation
- Forward Sample Port
- Reverse Sample Port

Options

- Forward/Reverse Power Detection
- Logic On/Off Control
- Heatsink

Configurations

- Module
- 19" Rack

Parameter	Specification
Frequency Range	2300-2500 MHz
RF Power @ 1dB compression point	53dBm (typ.)
Linear Gain	60 dB ± 1 dB*
Gain Flatness over Full Band	± .5 dB
Input VSWR	-14 dB
Output VSWR	-18 dB
DC Input Voltage	+ 28 Volts
DC Current Operating	20 Amperes @ +53dBm (max.)
Mechanical Dimensions Without Heatsink	9.5 x 5.0 x 0.9 inches
RF Connectors	SMA Female / N Female
Operating Temperature	-30º C to +85º C
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

*Adjustable per customer requirements

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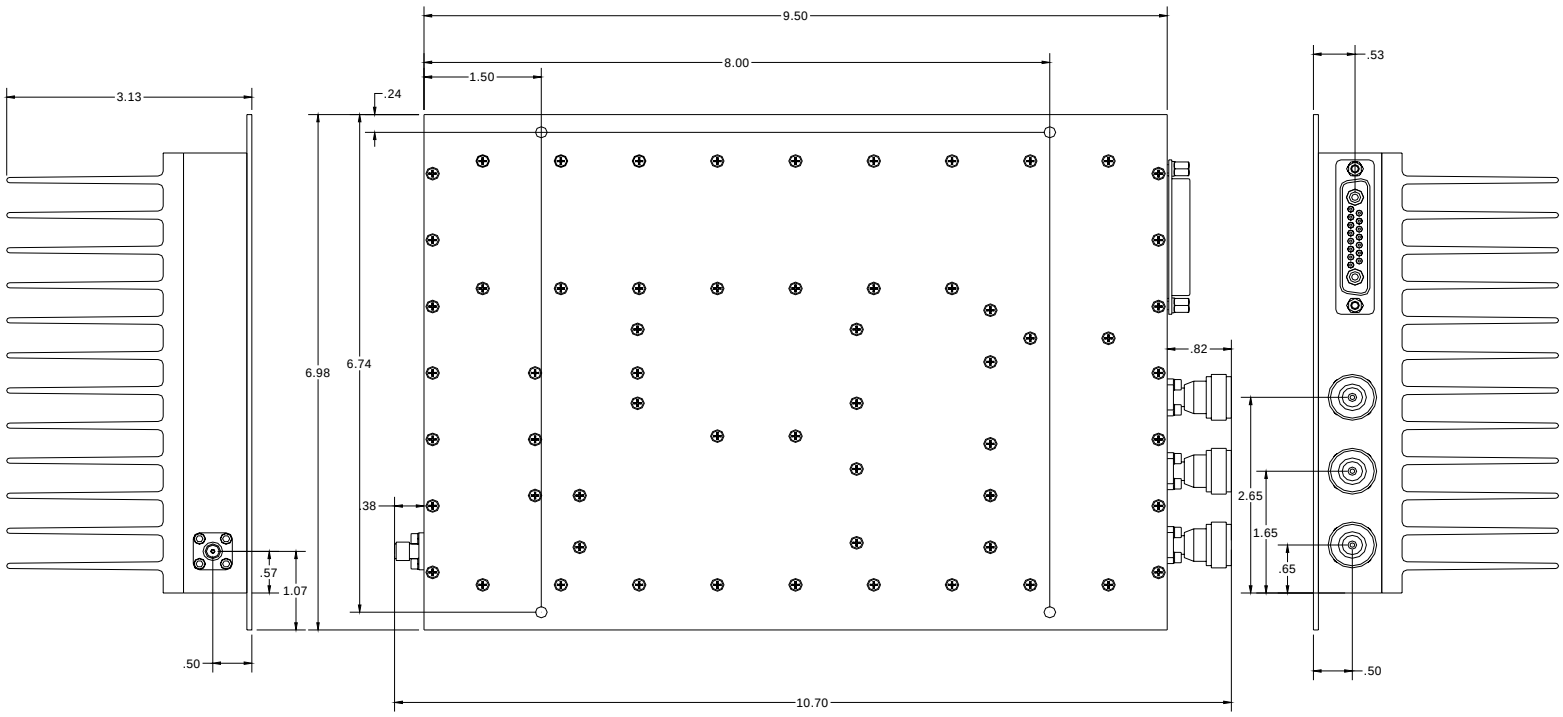
DIMENSIONS IN INCHES
HEATSINK OPTION SHOWN



Pin	Description	Values
RF INPUT	Input Connector (SMA Female)	-6 dBm typical
RF OUTPUT	Output Connector (N Female)	+53dBm @ P1dB
FWD COUPLING	Forward RF Power (N Female)	25dB directivity min.
REV COUPLING	Reverse RF Power (N Female)	25dB directivity min.

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17W2 D-Sub Control/Monitoring Connector Pin Assignments

Pin	Parameter	Function
A1	+28VDC	27V Min / 29V Max
A2	GND	--
1	Unused	--
2	TTL ON/OFF	+5V = ON / 0V = OFF
3	Thermal Trip Reset	If PA has shut down due to over temp condition, PA will not be able to be turned on (even if it has cooled down below 80°C) until +5V applied to pin
4	Thermal Trip Alarm	+5VDC output appears on pin if PA baseplate has exceeds 80°C. PA will automatically shut down at this point
5	Temperature Sensor	Temp in °C = (Voltage x 100) - 50 Example: 0.95 V on pin = 45 degC
6-9	Unused	--
10	Attenuator Control	+5V on pin = max. attenuation 20 dBr typical / 22 dBr max.
11-14	Unused	--
15	GND	--

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