



TECHNICAL BULLETIN

L-band Very High Gain Amplifier

E13839-05-05

Rev.B

This Amplifier is specifically studied for the Ground Satellite Communication Station. The amplifier is operative in the IF modem band frequency range with an excellent flatness. Is it possible to control the Amplifier via BUS I2C using the interface connector (it is available also an external control unit P/N E13838-01-05 which could be requested).

RF Performances & Electrical Characteristics

Parameter	Values	Units
Operative Frequency Range	800-2200	MHz
Gain	47dB \pm 2	dB
Gain adjust	7 max (1dB step)	dB
Flatness	\pm 0.3@ 950-1450	dB @MHz
	\pm 0.5@ 950-2000	dB @MHz
	\pm 1@ 800-2200	dB @MHz
Ripple	<0.2/20MHz	dB/MHz
Output Power for 1dB Compression (P1dB)	23 min	dBm
Noise Figure	12 Max	dB
Insertion Loss	3	dB
Return Loss	-15 max	dB
Coupled level respect to Out	29	dB
Supply Voltage	12VDC	V
Power Consumption	640@12VDC	mA

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INPUT/OUTPUT CONNECTORS

Connector Reference	Connector Type
RF Input	N Female
RF Output	N Female
RF Monitoring	Sma Female
Monitor & Power	D SUB 15PIN MALE Pin 1,8,9,15: GND Pin 2: SDA Pin 3: Addr3 Pin 4: Addr2 Pin 5: Addr1 Pin 6: Addr0 Pin 7: Sck Pin 10,11,13,14: 12VDC IN Pin12: N.C

Environmental Specifications

Operative Temperature: -20°+50°C with Natural Convection

Storage Temperature: -40C++70°C

Humidity: 95% without condensation

IP grade: IP50

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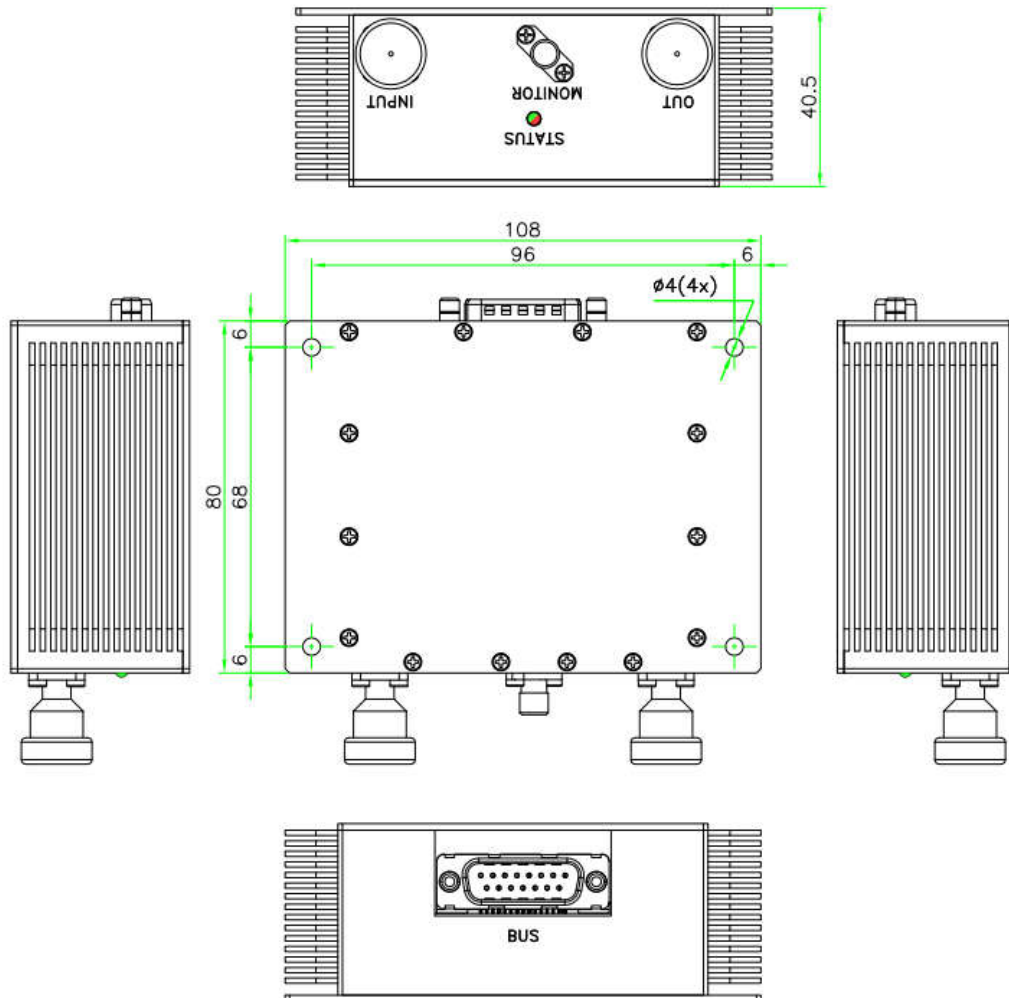
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OUTLINE DRAWING



(dimensions in mm)

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