	TECHNICAL BULLETIN	
L-band High Gain Amplifier	**E13839-01-05**	**Rev.A**

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	28dB ±2	dB
Flatness	±0.3@ 950-1450	dB @MHz
	±0.5@ 950-2000	dB @MHz
	±1@ 800-2200	dB @MHz
Ripple	<0.2/20MHz	dB/MHz
Output Power for 1dB Compression (P1dB)	15 min	dBm
Noise Figure	7 Max	dB
Return Loss	-15 max	dB
Coupled level respect to Out	20	dB
Supply Voltage	12VDC	V
Power Consumption	140@12VDC	mA

ELMACOM srl
Via delle Genziane s.n.c 00012 Guidonia, Rome - Italy
Phone: +39 (0774) 379296 Fax: +39 (0774) 353442
E-mail : info@elmacom.com Website : www.elmacom.com

	TECHNICAL BULLETIN	
L-band High Gain Amplifier	**E13839-01-05**	**Rev.A**

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: 15VDC IN Pin12: Reserved

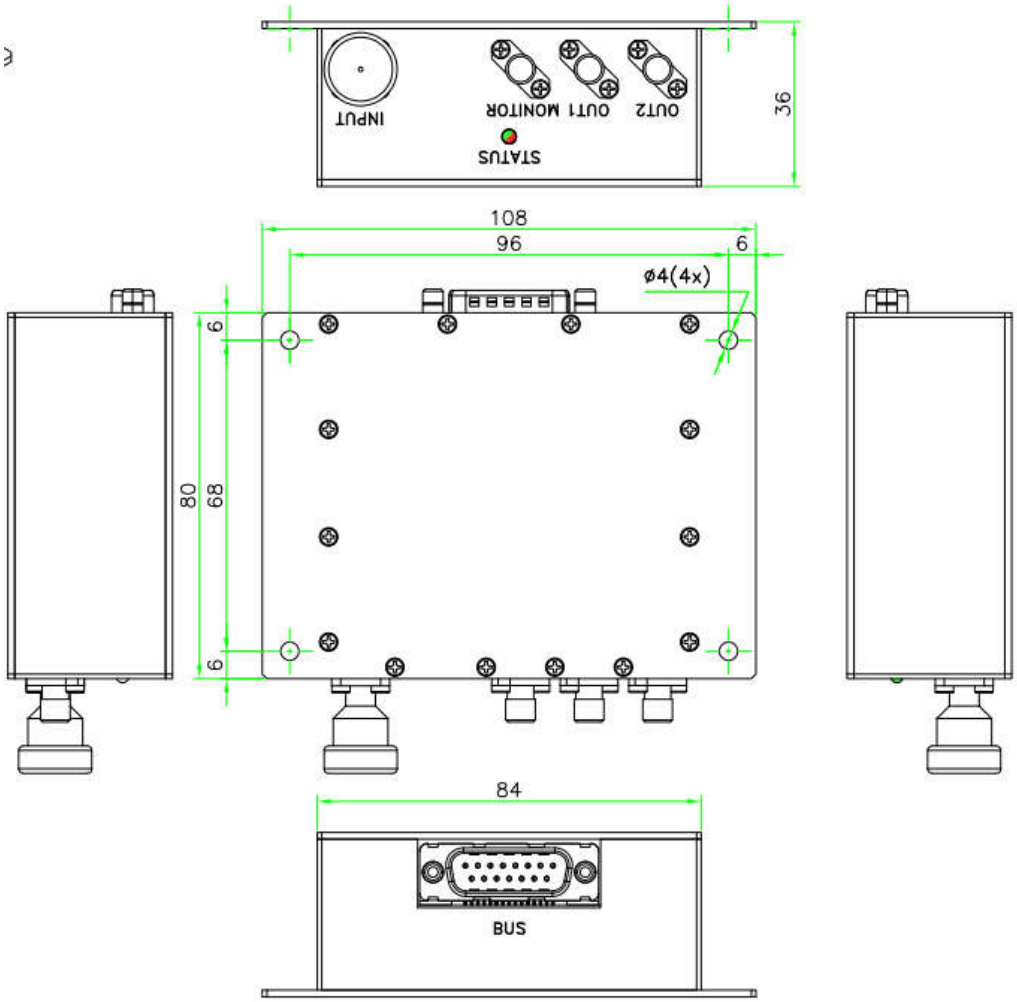
Environmental Specifications

Operative Temperature: -20°+50°C with Natural Convection
Storage Temperature: -40C÷+70°C
Humidity: 95% without condensation
IP grade: IP50

ELMACOM srl
Via delle Genziane s.n.c 00012 Guidonia, Rome - Italy
Phone: +39 (0774) 379296 Fax: +39 (0774) 353442
E-mail : info@elmacom.com Website : www.elmacom.com

	TECHNICAL BULLETIN	
L-band High Gain Amplifier	**E13839-01-05**	**Rev.A**

OUTLINE DRAWING



(dimensions in mm)

ELMACOM srl
Via delle Genziane s.n.c 00012 Guidonia, Rome - Italy
Phone: +39 (0774) 379296 Fax: +39 (0774) 353442
E-mail : info@elmacom.com Website : www.elmacom.com