MEC-2700-2900MHz-3C-LNA

2700-2900MHz 3-Channel Front End LNA

MECPOWER

The block diagram for 3-Channel Front End LNA unit is shown in Figure below. The 3-Channel Front End LNA module consists of the microwave low noise amplifier stages and its associated DC power supply circuitry. The purpose of the 3-Channel Front End LNA module is to amplify the input RF signal while adding minimum noise and distortion. The design specifications for low noise amplifier module are given below.

Product Features

Gain : ≥16 dB
Single Supply Operation: +12 V

Symbol	Parameter	Unit	Min.	Typ.	Max.
BW	**Operating Frequency**	**MHz**	2700		2900
VSWR	**Input / Output VSWR**		1.2		1.4
GRx	**Rx Gain**	**dB**		≥16	
	Sensitivity	**dBm**		-110	
S11	**Input Return Loss**				-16
VDC	**Operation Voltage**	**Volt**		12	
Co	**Operating Temperature**	°C	-20	25	+55

Channel-Channel Isolation (dB)		R1	R2	R3
	R1	X	65	69
	R2	62	X	67
	R3	72	67	X

Note: RF IN1-RF OUT1=**R1**, RF IN2-RF OUT2=**R2**, RF IN3-RF OUT3=**R3**

Electrical Specifications @ +12.0VDC, 25ºC, 50Ω System

Parameters	Value	Limit	Unit
Dimension (L x W x H)	102.28 x 51.35 x 25	-	mm
RF Connector Input / Output	SMA Female	-	-
DC Interface Connector	J30J Series Micro-D MIL-Spec Connector	-	-

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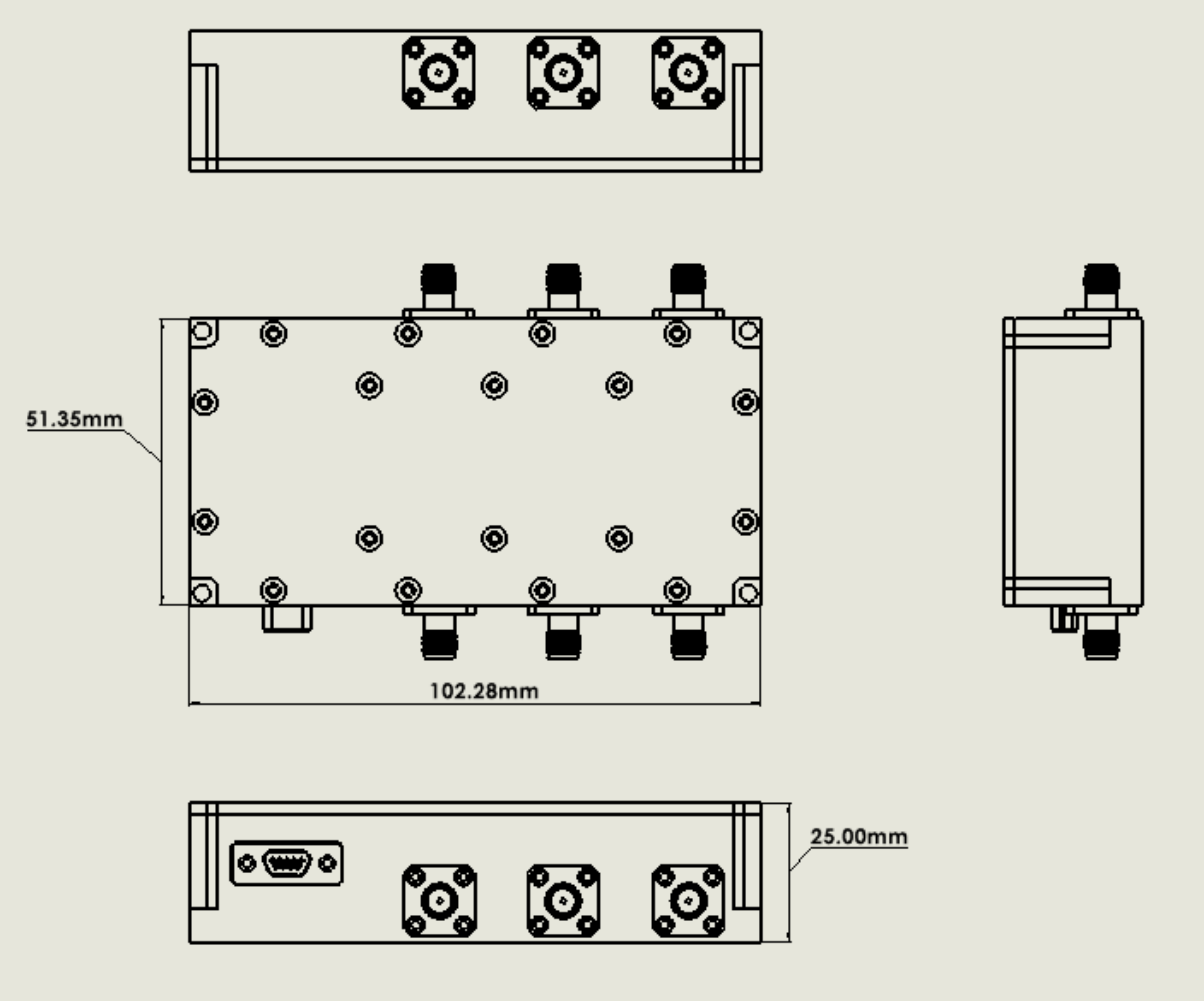
DC Interface (9-pin Micro-D Connector)

Pin No	Pin Description	Specifications	Remark
1-3	VDC	+12VDC Supply	
4-9	GND	Ground	

Mechanical Drawing



Note: All Dimensions are in mm.