



Block Up-Converter

Model: BUC-12G75-13G25-40-IP55

12.75-13.25GHz 40W CW, Output Power

Low power consumption, low phase noise and small size

Features:

- IF Frequency: 950~1450MHz.
- RF Frequency: 12.75-13.25GHz.
- Saturated output power: 40W.
- External Reference Adaptive.

Applications:

- Communication/Radar Systems
- Test Labs

Product Overview:

The BUC-12G75-13G25-40-IP55 is a block up-converter operating in the Ku-band. It features an integrated local oscillator, with input IF frequency of 950-1450 MHz and output RF frequency of 12.75-13.25GHz. Providing up to 40W of saturated output power.



Electrical Specifications at 25°C:

Parameter		Min	Typ	Max	Units
RF Frequency Range		12.75		13.25	6
LO Frequency range			11.8		GHz
IF Frequency Range		950		1450	MHz
Output Power		40			W
Output P1dB		46			dBm
Gain			72		dB
Spurious	In Band			-60	dBc
	Out of Band			-50	dBc
External Reference Input Frequency			10(sine wave)		MHz
External Reference Input Power		-5		5	dBm
Gain Flatness	@54MHz			1.5	dB
	@full band		4		
Gain Flatness@temperature range			4		dB
Phase Noise	@100Hz			-65	dBc/Hz
	@1KHz			-135	
	@10KHz			-140	
	@100KHz			-95	
VSWR				2	:1
DC Supply Voltage		36		60	V DC
Power Consumption@Psat				390	W

Mechanical Specifications:

Parameter	Value	Units
IF Connector	N type	
M&C connectors	RS-485 & RS-232	
Ingress Protection Grade	IP-55	
Size	245*125*125	mm
Weight	4	Kg

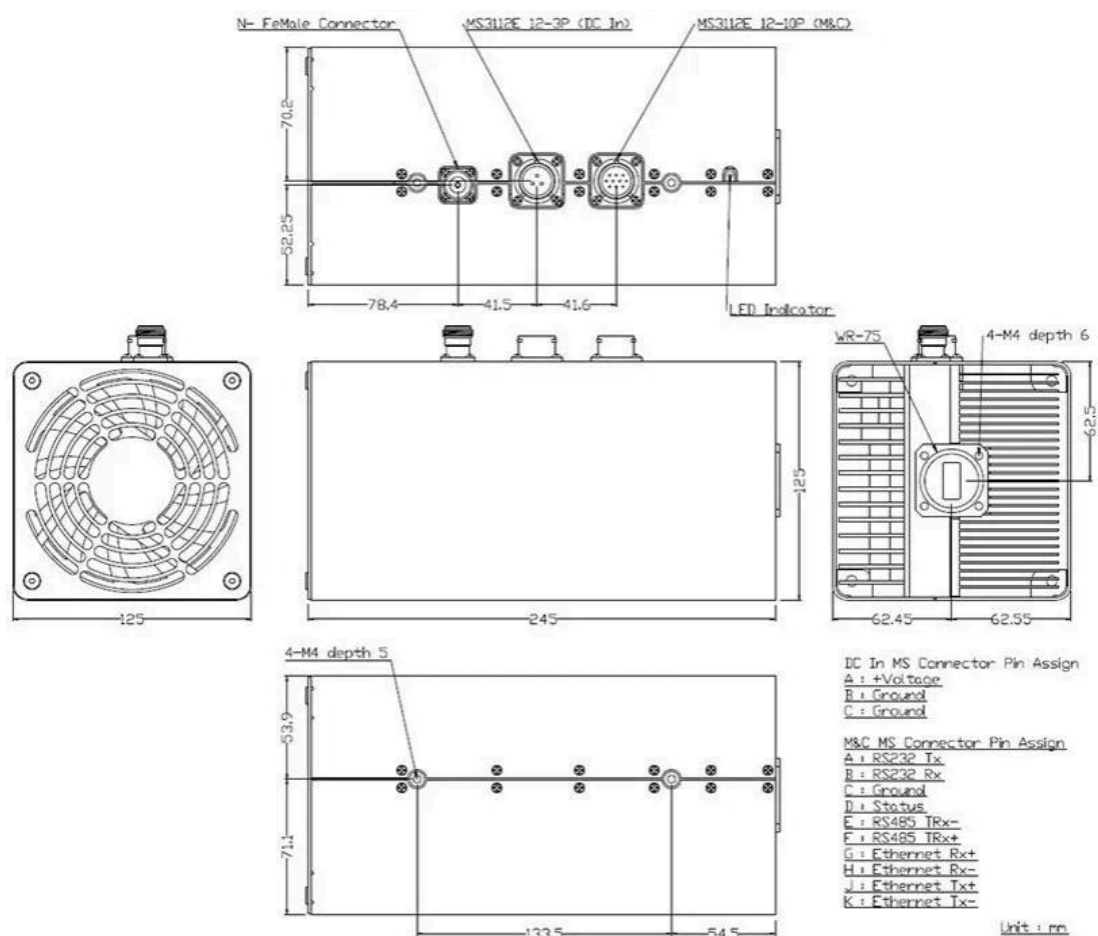


Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



Ordering Information:

Base Number	Description
BUC-12G75-13G25-40-IP55	Block Up-Converter, IF frequency range:950-1450MHz; RF output frequency range: 12.75-13.25GHz; 40W output power