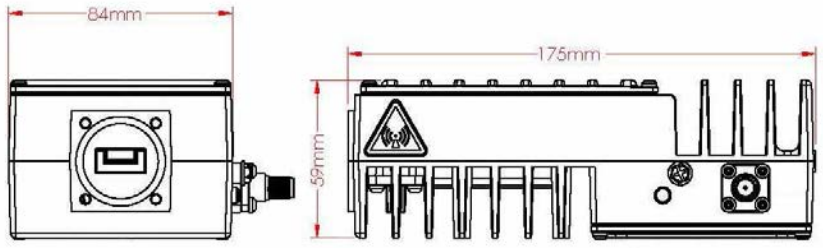
Amplus Communication

Amplus Communication has been serving the global VSAT industry, being continuously managed by the Most Experienced Personnel in Design, Engineering and Manufacturing of VSAT equipment in the Southeast Asia region.



4W, 6W, 8W

AM-9343 Series Ku-Band BUC

All-In-One Package for Crucial VSAT Networks

Key Features

- High Reliability
- Compact
- Low Weight
- LED Status Indicator

Description

- Linear, Constant Gain VSAT Block Up-Converter (BUC)
- 4W, 6W, 8W Operational RF Power
- Standard Ku-Band 14.00 - 14.50 GHz
- Extended Ku-Band 13.75 - 14.50 GHz
- Excellent Phase Noise of Local Oscillator
- Low Output Noise in Receive Band
- Compact, Rugged Housing with Ample Cooling
- ETSI & FCC Compliant with up to 2.4m Antennas
- RoHS2 Compliant

ISO 9001 ISO 14001 ISO 45001

54 Serangoon North Avenue 4, Level 4, Singapore 555854 Tel +65 6483 6089 Fax +65 6483 6098 INFO@AMPLUS.COM.SG WWW.AMPLUS.BIZ

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4W, 6W, 8W

AM-9343 Series Ku-Band BUC

Technical Details

Model No.	IF Input Freq	LO Freq	RF Output Freq	Output Power @P1dB	IFL Connector	Operating Voltage via IFL Connector
AM-9343-1336-WVEZ-N	950 - 1700 MHz (Ext Ku)	12.80 GHz	13.75 - 14.50 GHz	+36 dBm ≥4W	N-type	+24 VDC (+13 to +28 VDC) 55W max.
AM-9343-1336-WVEZ-F					F-type	
AM-9343-1436-WVEY-N	950 - 1450 MHz (Std Ku)	13.05 GHz	14.00 - 14.50 GHz		N-type	
AM-9343-1436-WVEY-F					F-type	
AM-9343-1338-WVEZ-N	950 - 1700 MHz (Ext Ku)	12.80 GHz	13.75 - 14.50 GHz	+37.8 dBm ≥6W	N-type	+24 VDC (+13 to +28 VDC) 60W max.
AM-9343-1338-WVEZ-F					F-type	
AM-9343-1438-WVEY-N	950 - 1450 MHz (Std Ku)	13.05 GHz	14.00 - 14.50 GHz		N-type	
AM-9343-1438-WVEY-F					F-type	
AM-9343-1339-WVEZ-N	950 - 1700 MHz (Ext Ku)	12.80 GHz	13.75 - 14.50 GHz	+39 dBm ≥8W	N-type	+24 VDC (+13 to +28 VDC) 65W max.
AM-9343-1339-WVEZ-F					F-type	
AM-9343-1439-WVEY-N	950 - 1450 MHz (Std Ku)	13.05 GHz	14.00 - 14.50 GHz		N-type	
AM-9343-1439-WVEY-F					F-type	

RF Specifications

Input / Output Frequency	As per the above table
Local Oscillator Frequency	As per the above table
RF Output Power	As per the above table
Max IF Input Level (w/o damage)	+13 dBm max.
Conversion Type	Single, fixed L.O.
Frequency Sense	Positive
Gain	62 dB nom., 56 dB min.
Gain Flatness	±2.5dB max. over full band ±0.75dB max. over 36 MHz
Gain Stability over Temperature	±2dB max.
ACPR	-24 dBc typ., -20 dBc min. @ rated P1dB, 1 x SR offset, QPSK 1 MS/s, a=0.2
Spurious	
in Band	-55 dBc max.
in Receive Band	-70 dBm max., @ 10.70 - 12.75 GHz
Out of Band	-55 dBc max.
SSB Phase Noise	
100 Hz	-65 dBc/Hz max.
1 KHz	-75 dBc/Hz max.
10 KHz	-85 dBc/Hz max.
100 KHz	-95 dBc/Hz max.
1 MHz	-105 dBc/Hz max.
Input VSWR	2.0 : 1 max.
Output VSWR	2.0 : 1 max.
Noise Power Density (NPD)	-90 dBm/Hz max. in Tx Band -160 dBm/Hz max. in Rx Band (10.70 - 12.75 GHz)

Interfaces

Input Interface	N-type, Female (50 Ohm) F-type, Female (75 Ohm)
Output Interface	WR 75G

LED Status

Green	Normal (All OK)
Red	Fault (Summary alarm)

Requirement for External Reference

Frequency	10 MHz (sine-wave)
Input power	-5 to +5 dBm @ input port
Phase Noise	-140 dBc/Hz max. @ 100 Hz -150 dBc/Hz max. @ 1 kHz -155 dBc/Hz max. @ 10 kHz

Environmental Conditions

Temperature	
Operating	-40°C to +55°C
Storage	-40°C to +75°C
Humidity	
Operating	0 to 100%
Storage	0 to 80%
Water Ingress Protection	IP67

Mechanical

Dimensions	175L x 84W x 59H mm / 5.9L x 3.3W x 2.3H inches
Weight	1.2 kg / 2.6 lb

**All specifications & designs are subject to changes without notice*

Version 2304

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