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.

40W, 50W GaAs

AM-9338 Series Ku-Band BUC

All-In-One Package for Crucial VSAT Networks

Key Features & Benefits

- Integrated BUC for Better Performance & Reliability
- Impressive Gain & Gain Flatness
- High Frequency Stability
- Monitoring & Controlling through RS232/485, TCP/IP & FSK
- Tricolour LED Status Indicator to Identify BUC Status Instantly
- Water-Proof IP65 Standard
- Built-in Receive Reject Filter (RRF)
- Built In Waveguide Output Isolator
- Output Sample Monitoring Port
- Field Removable Fans for Easy Maintenance

Optional Features & Accessories

- Built-In 10 MHz Reference with Automatic 10 MHz External Reference Input Detector
- Handheld Terminal for M&C
- TCP/IP M&C Interface
- FSK M&C Interface
- 48 VDC Operable

Frequency Range

	RF (GHz)	IF (MHz)	LO (GHz)
Std Ku	14.0 - 14.5	950 - 1450	13.05
Ext Ku	13.75 - 14.5	950 - 1700	12.8

ISO 9001 ISO 14001 ISO 45001

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Technical Details

RF Specifications

Input / Output Frequency	As per the frequency table on front page
Output Power P-1dB W(dBm)	40 (46), 50 (47)
Gain	70 dB nominal
Gain Flatness	± 2 dB typical
Gain Stability over Temperature	± 2 dB
Gain Control Range	20 dB in 0.5 dB step nominal
Intermodulation Product	-25 dBc max (3dB total back-off from rated power)
Spectral Regrowth	-30 dBc max (2 dB below the rated power @ 1x symbol rate offset from QPSK or OQPSK)
Spurious	-55 dBc max
Frequency Stability over Temperature:	
Internal Reference	±0.02 ppm
External Reference	As per external 10MHz ref
Level	0 to 5 dBm; Unit will automatically switch to internal reference if external reference level falls below 0 dBm nominal*
Phase Noise:	
100 Hz	-63 dBc/Hz max
1 KHz	-73 dBc/Hz max
10 KHz	-83 dBc/Hz max
100 KHz	-93 dBc/Hz max
I/P VSWR	1.3 : 1 max
O/P VSWR	1.3 : 1 max
Noise Power Density (NPD):	-75 dBm/Hz max in Tx Band -145 dBm/Hz max in Rx Band (10.95 - 12.75 GHz)

Operating Power Requirement

Operating Voltage	200 to 240 VAC (48 VDC optional)
Power Consumption (Watts)	450 max

Interfaces

Input Interface	N-type
Output Interface	CPR 75G
Output Sample	N-type

Monitor & Control

Monitor	Lock / Unlock status
	Temperature reading
	RF output power reading
Control	SSPA On/ Off
	Gain adjustment
Interface	Via PC : RS 232/485 (TCP-IP option available)
	Via Modem : FSK option available
	Via Hand-Held Terminal : RS 232 option available

LED Status

Green	Normal
Red	Fault
Blue	PA Off

Input Reference

Frequency Reference	10 MHz to be supplied external via L-band cable (Internal 10 Mhz ref option available)
Input Level	0 ± 5 dBm

Environmental Conditions

Operating Temperature	-40°C to +55°C
Humidity	0 to 100%

Mechanical

Dimensions (L x W x H)	305 x 205 x 150 mm / 12 x 8 x 6 inches
Weight	10 kg / 22 lb

*Applicable to internal reference model only

All specifications & designs are subject to changes without notice

Version 2302

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