GaN 40W Ku-band Mini BUC

VSAT^{TM} *Series are* ideal for Broadband VSAT RF terminal.

- **46 dBm (P_{sat}) Output Power**
- **High Linearity**
- **Optional Full M&C (RS232, RS485 or Ethernet)**
- **Optional Internal Reference source**
- **RoHS Compliant**
- **36 ~ 60 VDC or 85 ~ 265 VAC Power**
- **DC Power 330W Max. (VAC:350W)**
- **Two Years Warranty**

AC Version

GaN 40W Ku-band BUC Model

Model Number	Description	RF Band	IF Band	Output Power
GBA46APF(N)E-08 (DC)	GaN 40W Ku BUC, Std, F/N Type	14.00-14.50 (GHz)	950-1450 (MHz)	+46dBm
GBA46APF(N)E-09 (AC)				
GBA46BPF(N)E-08 (DC)	GaN 40W Ku BUC, Low, F/N Type	13.75-14.25 (GHz)	950-1450 (MHz)	+46dBm
GBA46BPF(N)E-09 (AC)				
GBA46CPF(N)E-08 (DC)	GaN 40W Ku BUC, Ext, F/N Type	13.75-14.50 (GHz)	950-1700 (MHz)	+46dBm
GBA46CPF(N)E-09 (AC)				

08 : MS Con. 36 - 60VDC, **M8 : MS Con. 36 - 60VDC, M&C**

09 : MS Con.85 - 265VAC **M9 : MS Con.85 - 265VAC,M&C**

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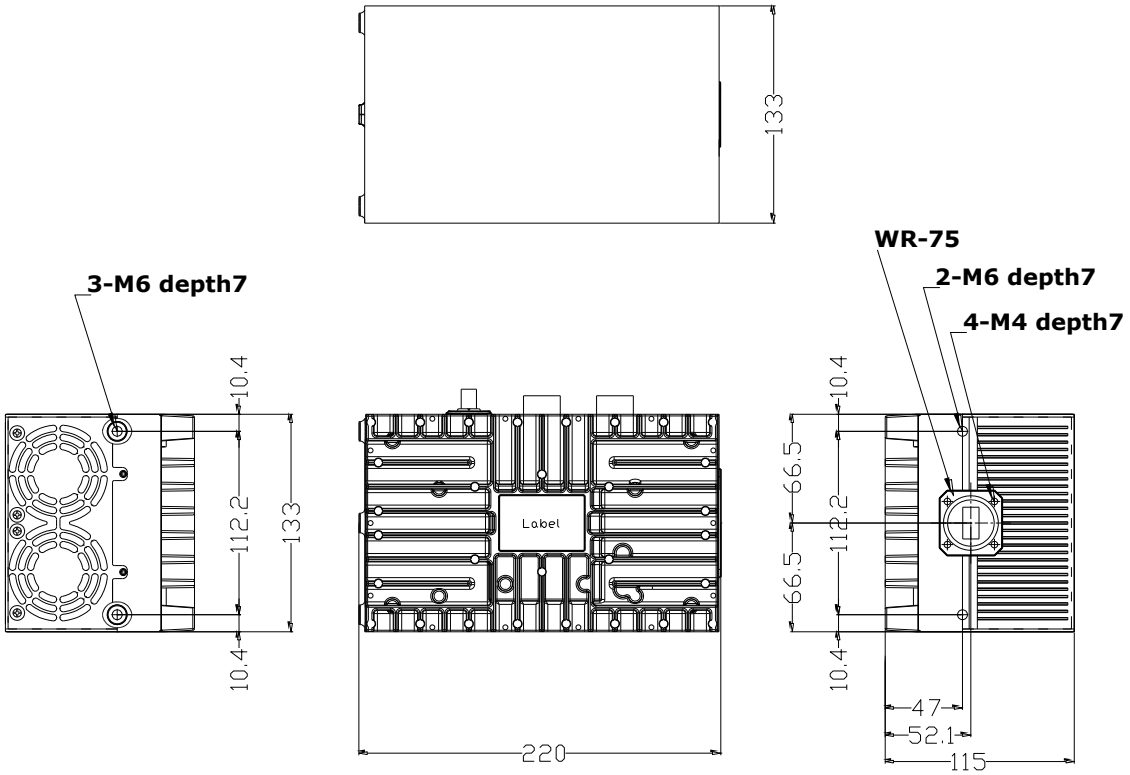
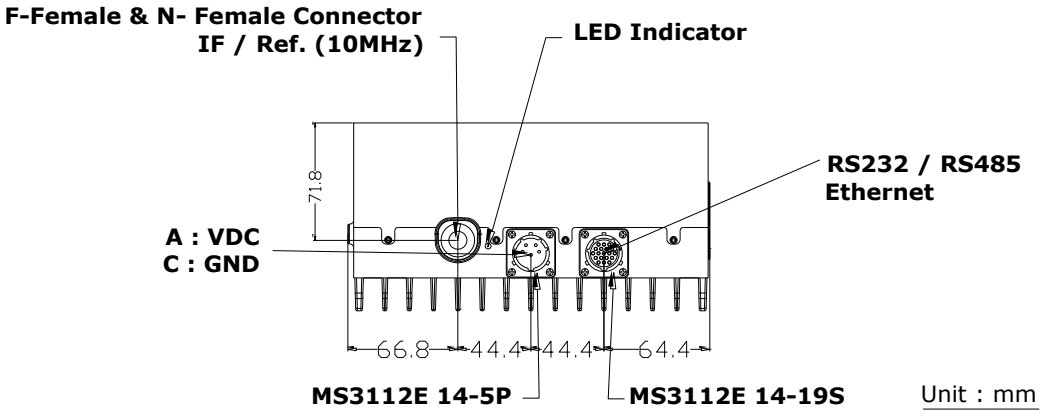
GaN 40W Ku-band Mini BUC

Mechanical Drawing (DC)





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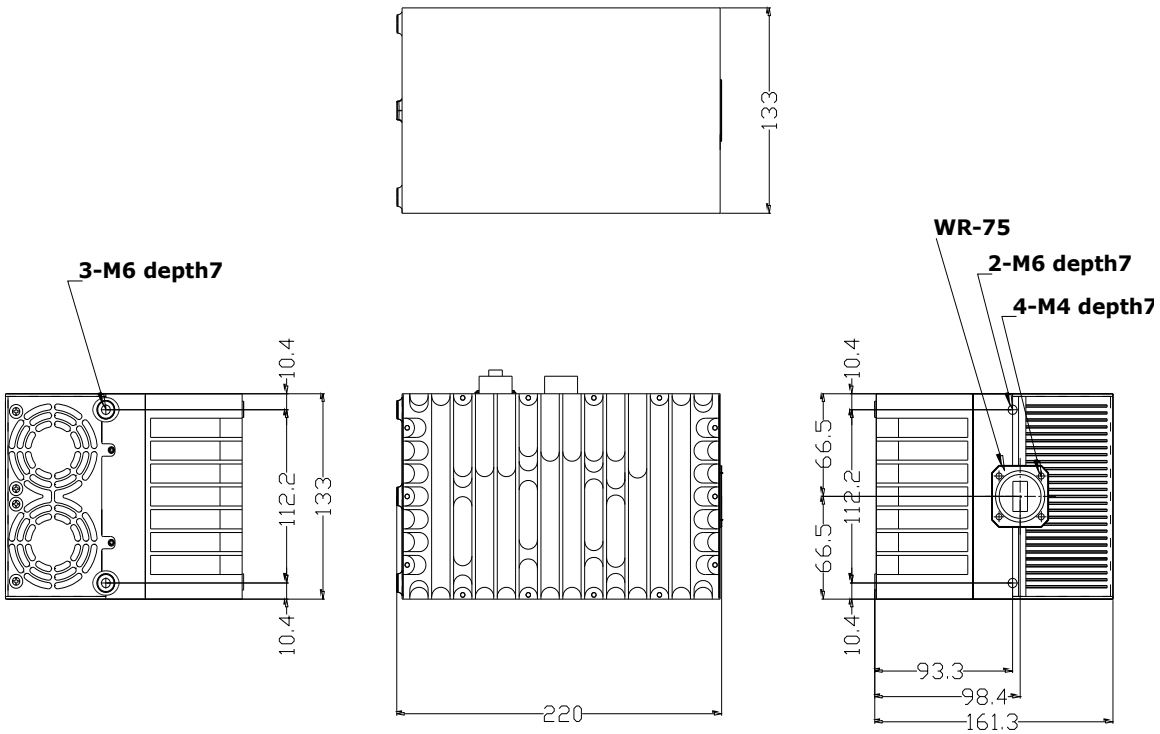
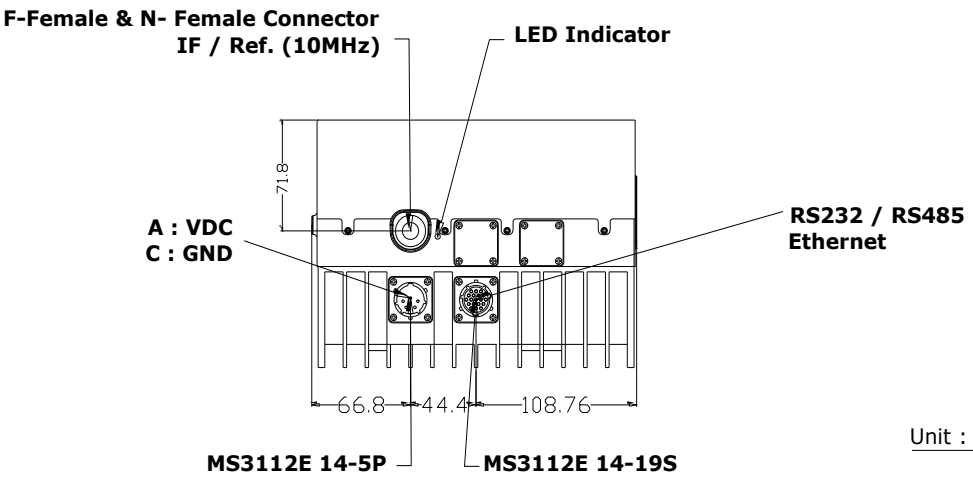
Mechanical Drawing (AC)





Unit : mm

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Specifications

Parameters	Specifications
Input Characteristics	
Frequency Range	A:950~1450MHz,B : 950~1450MHz,C : 950~1700MHz
Impedance	75 Ohm or 50 Ohm
VSWR	2 : 1
Interface	F-Type or N-Type
Output Characteristics	
Frequency Range	A : 14.00 ~ 14.50 GHz (LO Freq = 13.05GHz) B : 13.75 ~ 14.25 GHz (LO Freq = 12.80GHz) C : 13.75 ~ 14.50 GHz (LO Freq = 12.80GHz)
Output Power(Typical)	P_{SAT} : 46dBm, $P_{LINEAR1}$: 42 dBm, $P_{LINEAR2}$: 42 dBm $P_{LINEAR1}$ is the power at which the IMD specs are met $P_{LINEAR2}$ is the power at which the spectral regrowth is <-30 dBc @ 1.0 x symbol rate for QPSK/OQPSK/ 8PSK modulation)
Intermodulation Distortion	-25 dBc two signal 5MHz apart at $P_{LINEAR1}$
Spectral Regrowth @ $P_{LINEAR2}$	-30 dBc
VSWR	2 : 1
Interface	WR75G
Transfer Characteristics	
Frequency Sense	Non-inverted
Gain Typical	72 dB
Gain Adjustment Range	20dB Variable in 0.5 dB Steps via M&C
Gain Variation Over 54 MHz	1.5 dB
Over the whole Bandwidth	4 dB
Over Operating Temperature	4 dB
Spurious In band	-60dBc
Out of band	-50dBc
Phase Noise(Typical) 100Hz	-65dBc/Hz (-60dBc/Hz Min.)
1KHz	-75dBc/Hz (-70dBc/Hz Min.)
10KHz	-85dBc/Hz (-80dBc/Hz Min.)
100KHz	-95dBc/Hz (-90dBc/Hz Min.)
Miscellaneous	
External Reference Input Freq.	10MHz
Input Power	-5 to +5dbm@Input Port
Phase Noise(dBc/Hz max.)	-125(@100Hz),-135(@1kHz),-145(@10kHz)
Operating Voltage, Military Circular	36 ~ 60 VDC, 85 ~ 265VAC
Power Consumption(nominal)	330W (VAC:350W@P_{SAT})
Operating Temperature	-40 to +55 ℃ Operational -40 to +75 ℃ Storage
Humidity	Up to 100%
Dimensions / Weight	220 X 133 X 115 (DC), 220 X 133 X 161 (AC) (mm), 3.5Kg (DC/DC Ver.), 4Kg (AC/DC Ver.), Mounting Jig (Add up +1Kg each)

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