



50W Ku-band Mini BUC

- 47dBm Output Power
- Optional Internal Reference Source
- RoHS Compliant
- Small Size and Mass
- Two Years Warranty



Models

Model Number	Description	RF (GHz)	IF (MHz)	Output Power (dBm)
TBA47AQFE-08	50W Ku-band, A-series, F- or N-type Connector	14.00-14.50	950-1450	+47
TBA47AQNE-08				
TBA47CQFE-08	50W Ku-band, C-series, F- or N-type Connector	13.75-14.50	950-1700	+47
TBA47CQNE-08				

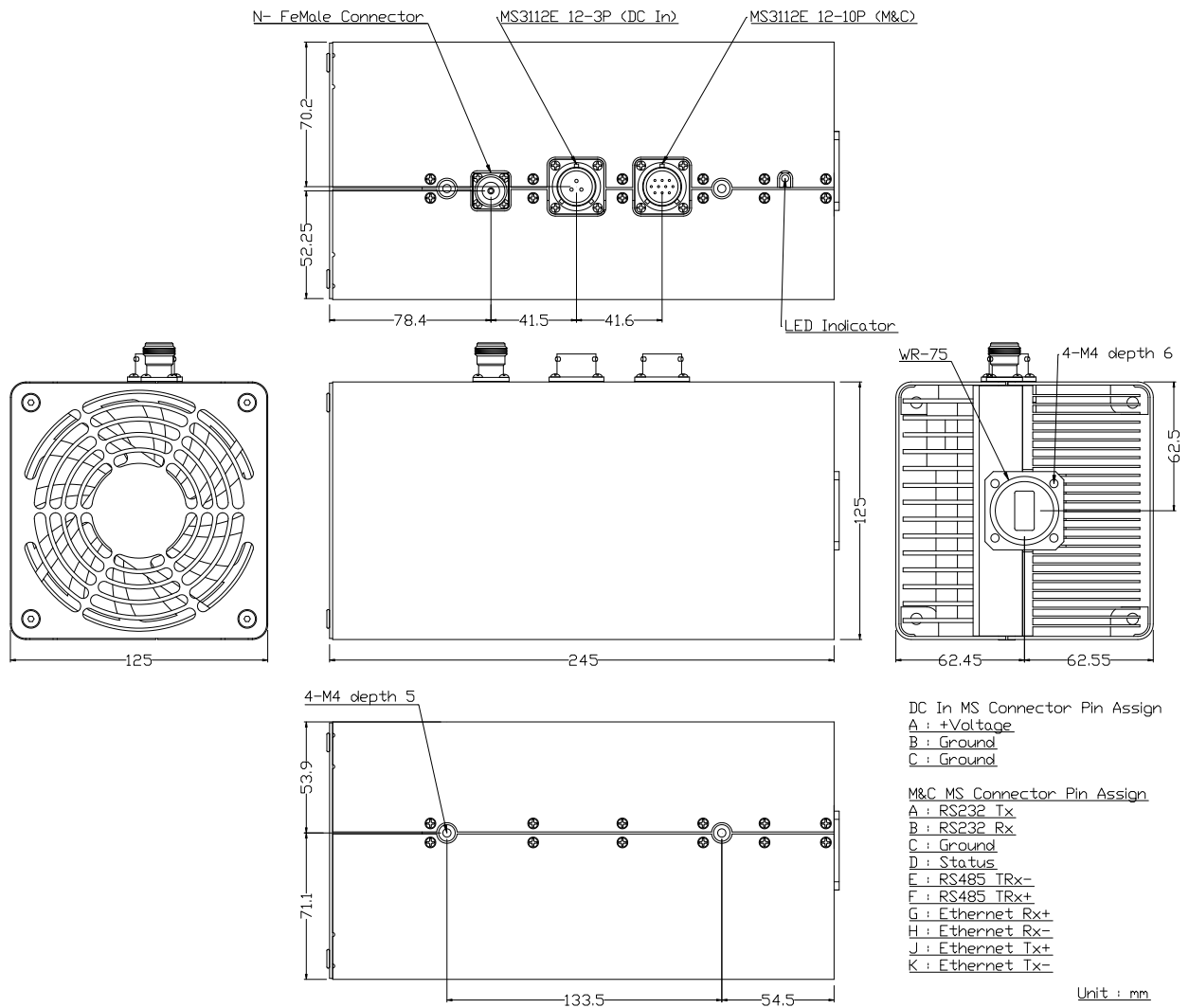
50W Ku-band Mini BUC

Specifications

Parameters		Specifications
Input Characteristics		
Frequency Range		TBA47A: 950-1450 MHz TBA47C: 950-1700 MHz
Impedance		75 Ohm or 50 Ohm
Input VSWR		2 : 1
Interface		F- or N-type Connector
Output Characteristics		
Frequency Range		TBA47A: 14.00-14.50 GHz (LO= 13.05 GHz) TBA47C: 13.75-14.50 GHz (LO= 12.80 GHz)
Output Power @ 1dB G.C.P.		+47 dBm typ. / +46 dBm min. over temperature
Output VSWR		2 : 1
Interface		WR75G
Transfer Characteristics		
Frequency Sense		Non-inverted
Linear Gain		72 dB typ.
Gain Variation	Over 54 MHz	1.5 dB
	Over the Whole Bandwidth	4 dB
	Over Operation Temperature	4 dB
Spurious	In Band	-60 dBc
	Out of Band	-50 dBc
Phase Noise (typ.)	100 Hz	-65 dBc/Hz
	1 KHz	-75 dBc/Hz
	10 KHz	-85 dBc/Hz
	100 KHz	-95 dBc/Hz
Miscellaneous		
External Reference	Input Frequency	10 MHz
	Input Power	-5 to +5 dBm @ Input Port
	Phase Noise	-125 dBc/Hz max. @ 100 Hz Offset -135 dBc/Hz max. @ 1 KHz Offset -140 dBc/Hz max. @ 10 KHz Offset
M&C Function (Optional)		RS-485, RS-232, Ethernet, SNMP
Operating Voltage		36-60 VDC
Power Consumption		390W max.
Operating Temperature		-40 to +60°C
Humidity & Waterproof/Dustproof		Up to 100% / IP55
Internal Function		Lock detector shuts off Tx in case of LO unlocked
Dimension & Weight		245 x 125 x 125 mm / 4 kg

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Mechanical Drawing



TBA47A,C_20220607_REV1.0