



50W Ku-band C-series BUC



- 47dBm Output Power
- RF: 13.75-14.5GHz, LO= 12.8GHz
- AC Power Consumption: 450W
- Optional Internal Reference Source
- RoHS Compliant
- Two Years Warranty

Models

Model Number	Description	RF (GHz)	IF (MHz)	Output Power (dBm)
TB47CPFE-09	50W Ku-band, C-series, F- or N-type Connector	13.75-14.5	950-1700	+47
TB47CPNE-09				

09: MS Con. 85-265 VAC

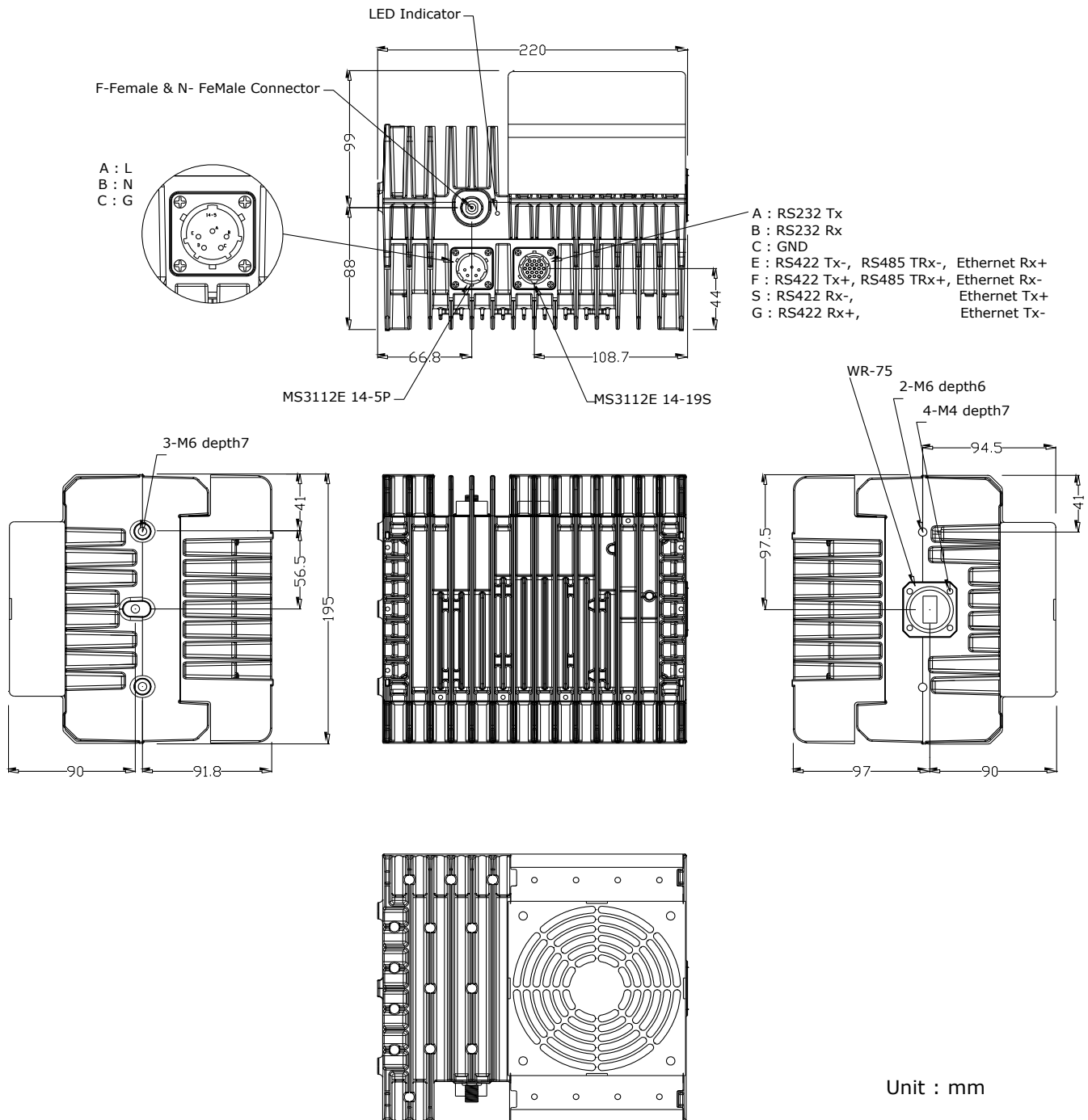
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Specifications

Parameters		Specifications
Input Characteristics		
Frequency Range		TB47C: 950-1700 MHz
Impedance		75 Ohm or 50 Ohm
Input VSWR		2 : 1
Interface		F- or N-type Connector
Output Characteristics		
Frequency Range		TB47C: 13.75-14.5 GHz (LO= 12.8 GHz)
Output Power @ 1dB G.C.P.		+47 dBm Typical (+46 dBm Minimum)
Output VSWR		2 : 1
Interface		WR75G
Transfer Characteristics		
Frequency Sense		Non-inverted
Linear Gain		72 dB Typical
Tx Gain Adjustment Range		15 dB Variable in 0.5 dB Steps via M&C Optionally
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 (Typical)	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 Input Power Phase Noise	10 MHz -5 to +5 dBm @ Input Port -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)	Interface Mute Control Status LED Function CMD Function TLM	RS-485, RS-232, or Ethernet Via M&C Interface or Disconnection 10MHz Reference Bicolor: Red(Abnormal), Green(Normal) HPA On/Off, Gain Control, Address Change Output Power Detection, Out-of-lock Alarm, Temperature, Summary Alarm
Operating Voltage		85-265 VAC
Power Consumption		450 W Maximum
Operating Temperature		-40 to +55 °C
Humidity & Waterproof/Dustproof		Up to 100% / IP54
Internal Function		Lock detector shuts off Tx in case of LO unlocked
Dimension & Weight		220 x 196 x 187 mm / 6.0 kg (+1.0 kg mounting jig)

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Mechanical Drawing



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