

**SATCOM TRANSMITTER**

# BUC

## Ku-band 25W BUC

### M-T1225



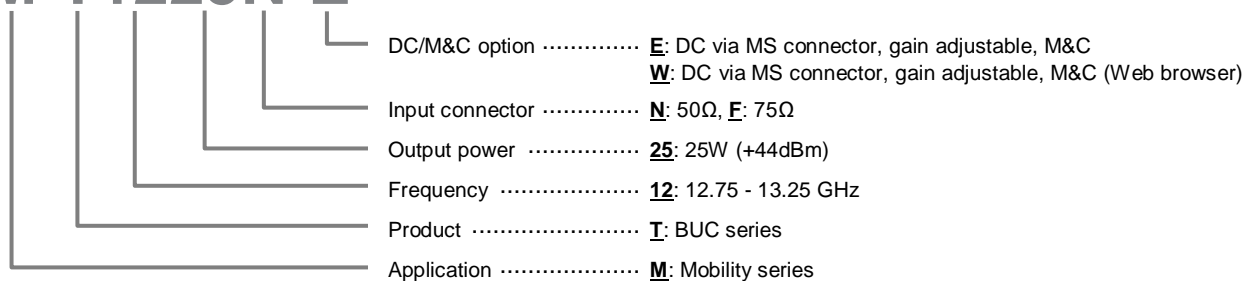
### TYPICAL SPECIFICATIONS

<b>Output frequency</b>	12.75 to 13.25 GHz	<b>Gain</b>	70dB max
<b>Input frequency</b>	950 to 1450 MHz	<b>Gain control</b>	Δ15dB, 1dB step
<b>LO frequency</b>	11.80GHz	<b>Gain stability over temp</b>	±2.0dB max
<b>Frequency sense</b>	No inversion	<b>Gain flatness</b>	±1.0dB in any 36MHz ±2.5dB over full band
<b>Output P1dB</b>	+44dBm min	<b>Power requirement</b>	+43 to +53 VDC supplied through MS connector
<b>Input return loss</b>	12dB min	<b>Power consumption</b>	220W max
<b>Output return loss</b>	15dB min	<b>Input interface</b>	N-female, F-female
<b>Phase noise (SSB)</b>	-60dBc/Hz max @100Hz -73dBc/Hz max @1KHz -83dBc/Hz max @10KHz -93dBc/Hz max @100KHz	<b>Output interface</b>	WR-75
<b>External reference Signal frequency</b>	10MHz	<b>Dimension</b>	180(L) x 130(W) x 118(H) mm
<b>External reference level</b>	-5 to +5 dBm	<b>Weight</b>	2.9Kg
<b>External reference phase noise</b>	-140dBc/Hz max @ 1KHz	<b>Operating temp</b>	-40 to 55 °C
<b>Spurious</b>		<b>Humidity</b>	0 - 95 %
<b>In-band</b>	-60dBc	<b>DC connector</b>	MS3112E14-5P
<b>Out-band</b>	-50dBc	<b>M&amp;C interface</b>	MS3112E12-10P
		<b>M&amp;C function</b>	- Output power - Temperature - LO status - Output power mute - Gain control - Fan status - Firmware upgradable

\* External mute option is available upon customer request.

### HOW TO ORDER Ku-BAND 25W BUC

## M-T1225N-E

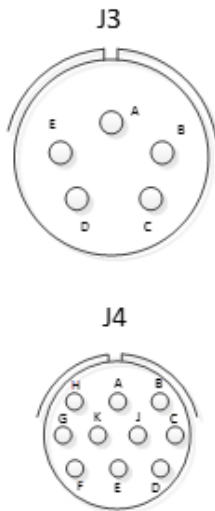
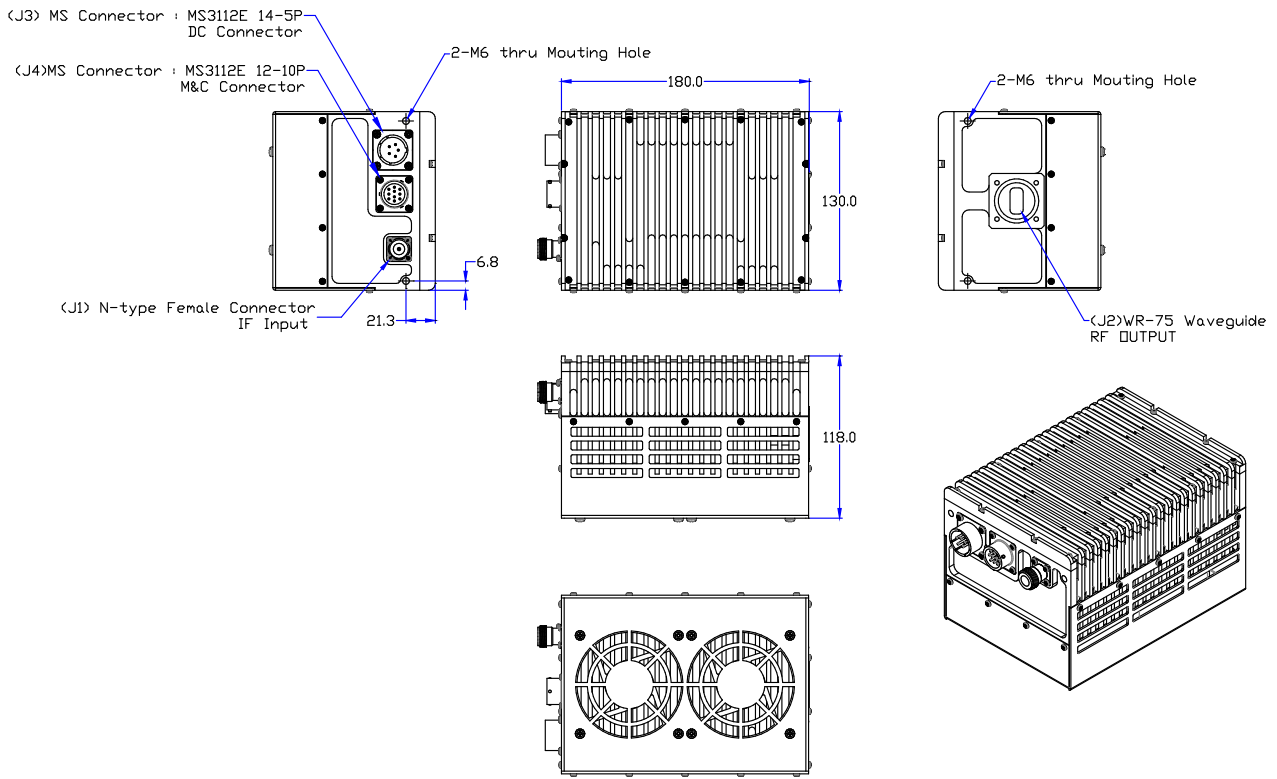


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## AVAILABLE OPTIONS

Option	Gain Control	Connectors		M&C	
		DC Input	M&C	PC-based GUI (Ethernet or RS-232)	Web-based GUI (Web browser)
E	Adjustable	MS3112E14-5P (5-pin)	MS3112E12-10P (10-pin)	Available	Unavailable
W	Adjustable	MS3112E14-5P (5-pin)	MS3112E12-10P (10-pin)	Available	Available

## OUTLINE DRAWING AND INTERFACE



Connector	Parameter	Description
J1	IF input connector	N-female, panel-mounted
	Impedance	50 ohm
	10MHz reference input	
J2	RF output connector	WR-75
J3	DC	Panel-mount (MS3112E14-5P)
	A	N.C.(Not connected)
	B, C	+43 to +53 VDC (DC Power +)
	D, E	GND (DC Power -)
	M&C(Ethernet or RS232)	Panel-mount (MS3112E12-10P)
J4	J4-A	RS-232 Tx
	J4-B	RS-232 Rx
	J4-C	Ethernet Rx-
	J4-D	
	J4-E	EXT Mute GND (Option*)
	J4-F	EXT Mute HIGH (Option*)
	J4-G	Ethernet Tx+
	J4-H	RS-232 GND
	J4-J	Ethernet Rx+
	J4-K	Ethernet Tx-

\* External mute option is available upon customer request. External mute is activated by connecting EXT Mute HIGH(J4-F) to EXT Mute GND(J4-E).