

**SATCOM TRANSMITTER**

# BUC

## C-band 30W BUC

M-T5030, M-T5130, M-T5230, M-T5330, M-T5430, M-T6030



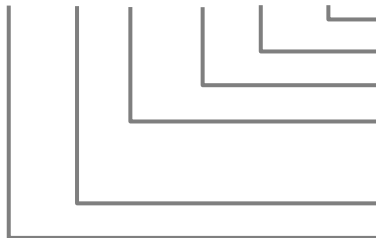
### TYPICAL SPECIFICATIONS

<b>Output frequency</b>	M-T5030: 5.850 to 6.425 GHz M-T5130: 5.850 to 6.650 GHz M-T5230: 5.850 to 6.725 GHz M-T5330: 5.725 to 6.525 GHz M-T5430: 5.725 to 6.225 GHz M-T6030: 6.725 to 7.025 GHz	<b>Spurious (In/Out-band)</b>	-50dBc
<b>Input frequency</b>	M-T5030: 950 to 1525 MHz M-T5130: 950 to 1750 MHz M-T5230: 950 to 1825 MHz M-T5330: 950 to 1750 MHz M-T5430: 975 to 1475 MHz M-T6030: 950 to 1250 MHz	<b>Gain</b>	72dB typ @0dB attenuation
<b>LO frequency</b>	M-T5030: 4.9GHz M-T5130: 4.9GHz M-T5230: 4.9GHz M-T5330: 4.775GHz M-T5430: 4.75GHz M-T6030: 5.775GHz	<b>Gain control</b>	Δ15dB (57 to 72 dB), 1dB step
<b>Frequency sense</b>	No inversion	<b>Gain stability over temp</b>	±3.0dB max
<b>Output P1dB</b>	+45dBm typ	<b>Gain flatness</b>	±1.0dB in any 36MHz ±2.5dB over full band
<b>Input VSWR</b>	1.5:1 max	<b>Power requirement</b>	+43 to +53 VDC supplied through MS connector
<b>Output VSWR</b>	2:1 max	<b>Power consumption</b>	200W max
<b>Phase noise (SSB)</b>	-60dBc/Hz max @100Hz -73dBc/Hz max @1KHz -83dBc/Hz max @10KHz -93dBc/Hz max @100KHz	<b>Input interface</b>	N-female, F-female
<b>External reference Signal frequency</b>	10MHz	<b>Output interface</b>	CPR-137G
<b>External reference level</b>	-5 to +5 dBm	<b>Dimension</b>	180(L) x 130(W) x 118(H) mm
<b>External reference phase noise</b>	-140dBc/Hz max @1KHz	<b>Weight</b>	2.9Kg
		<b>Operating temp</b>	-40 to 55 °C
		<b>Humidity</b>	0 - 95 %
		<b>DC connector</b>	MS3112E14-5P
		<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 C-BAND 30W BUC

## M-T5030N-E



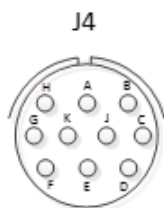
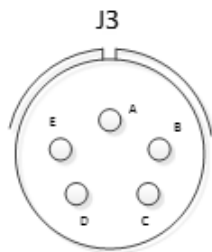
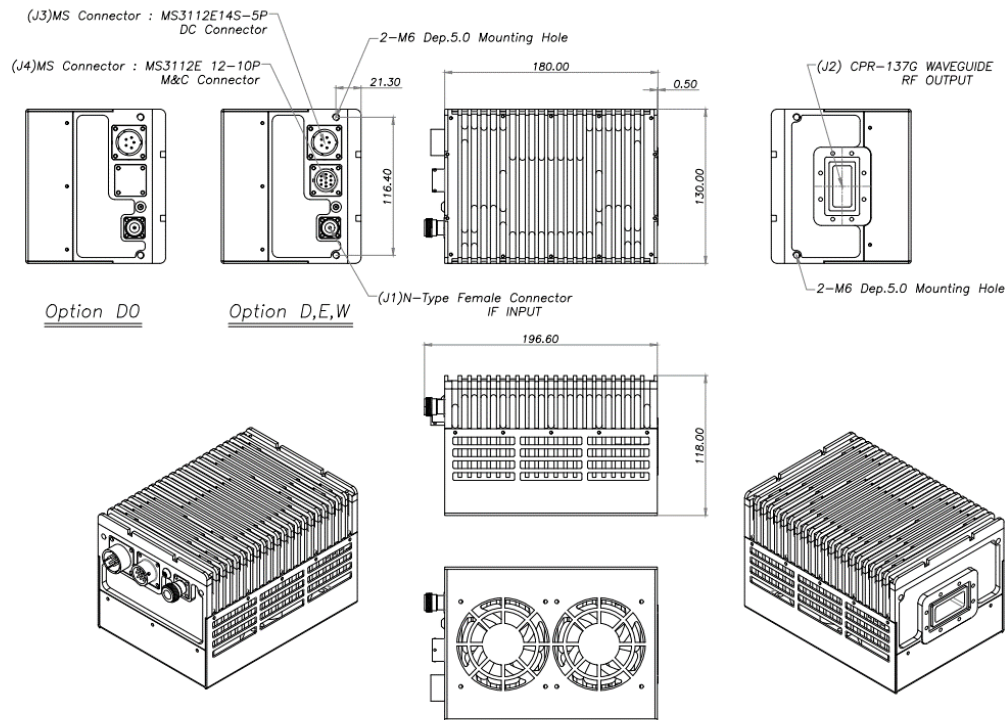
- DC/M&C option ..... **D**: DC via MS connector, fixed gain, no M&C  
**D**: DC via MS connector, fixed gain, M&C  
**E**: DC via MS connector, gain adjustable, M&C  
**W**: DC via MS connector, gain adjustable, M&C (Web browser)
- Input connector ..... **N**: 50Ω, **E**: 75Ω
- Output power ..... **30**: 30W (+45dBm)
- Frequency ..... **50**: 5.850 to 6.425 GHz, **51**: 5.850 to 6.650 GHz,  
**52**: 5.850 to 6.725 GHz, **53**: 5.725 to 6.525 GHz,  
**54**: 5.725 to 6.225 GHz, **60**: 6.725 to 7.025 GHz
- Product ..... **T**: BUC series
- Application ..... **M**: Mobility series

# SATCOM TRANSMITTER

## AVAILABLE OPTIONS

Option	Gain Control	Connectors		M&C	
		DC Input	M&C	PC-based GUI (Ethernet or RS-232)	Web-based GUI (Web browser)
D0	Fixed Gain	MS3112E14-5P (5-pin)	No M&C Function	No M&C Function	
D	Fixed Gain	MS3112E14-5P (5-pin)	MS3112E12-10P (10-pin)	Available	Unavailable
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	CPR-137G
J3	DC	Panel-mount (MS3112E14-5P)
	A	N.C.(Not connected)
	B, C	+43 to +53 VDC (DC Power +)
	D, E	GND (DC Power -)
J4 (Opt. D, E, W)	M&C(Ethernet or RS232)	Panel-mount (MS3112E12-10P)
	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).