

**SATCOM TRANSMITTER**

# BUC

## Ka-band 5W BUC

### T2705, T2805



### TYPICAL SPECIFICATIONS

<b>Output frequency</b>	T2705: 27.652 - 28.388 GHz T2805: 28.172 - 29.071 GHz	<b>Spurious (In/Out-band)</b>	-60dBc max @linear power
<b>Input frequency</b>	T2705: 1052 - 1788 MHz T2805: 972 - 1871 MHz	<b>Gain</b>	65dB typ @0dB attenuation
<b>LO frequency</b>	T2705: 26.60GHz T2805: 27.20GHz	<b>Gain control</b>	Δ15dB (50 to 65 dB), 1dB step
<b>Frequency sense</b>	No inversion	<b>Gain stability over temp</b>	±2.0dB at any const. frequency
<b>Saturated output power</b>	+37dBm min @-40 to 25 °C +36dBm min @up to 55°C	<b>Gain flatness</b>	±1.5dB in any 216MHz ±2.5dB over full band
<b>Linear output power</b>	+35dBm	<b>Power requirement</b>	+43 to +53 VDC supplied through IFL or MS connector
<b>Input return loss</b>	10dB min	<b>Power consumption</b>	88W max
<b>Output return loss</b>	10dB 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-28
<b>External reference signal frequency</b>	10MHz	<b>Dimension</b>	200(L) x 180(W) x 80(H) mm
<b>External reference level</b>	-5 to +5 dBm	<b>Weight</b>	3.0kg
<b>External reference phase noise</b>	-145dBc/Hz max @ 1KHz	<b>Operating temp</b>	-40 to 55 °C
<b>Spectral regrowth</b>	25dBc min @linear power	<b>Humidity</b>	0 - 95 %
<b>Group delay variation</b>	±5.0 nanoseconds over any 216MHz	<b>M&amp;C interface</b>	Ethernet or RS232 through MS3112E14-12P connector - Output power - Temperature - LO status - Output power mute - Gain control - Firmware upgradable

\* External mute option is available upon customer request.

### HOW TO ORDER Ka-BAND 5W BUC

## T2805N-E

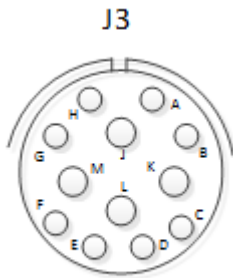
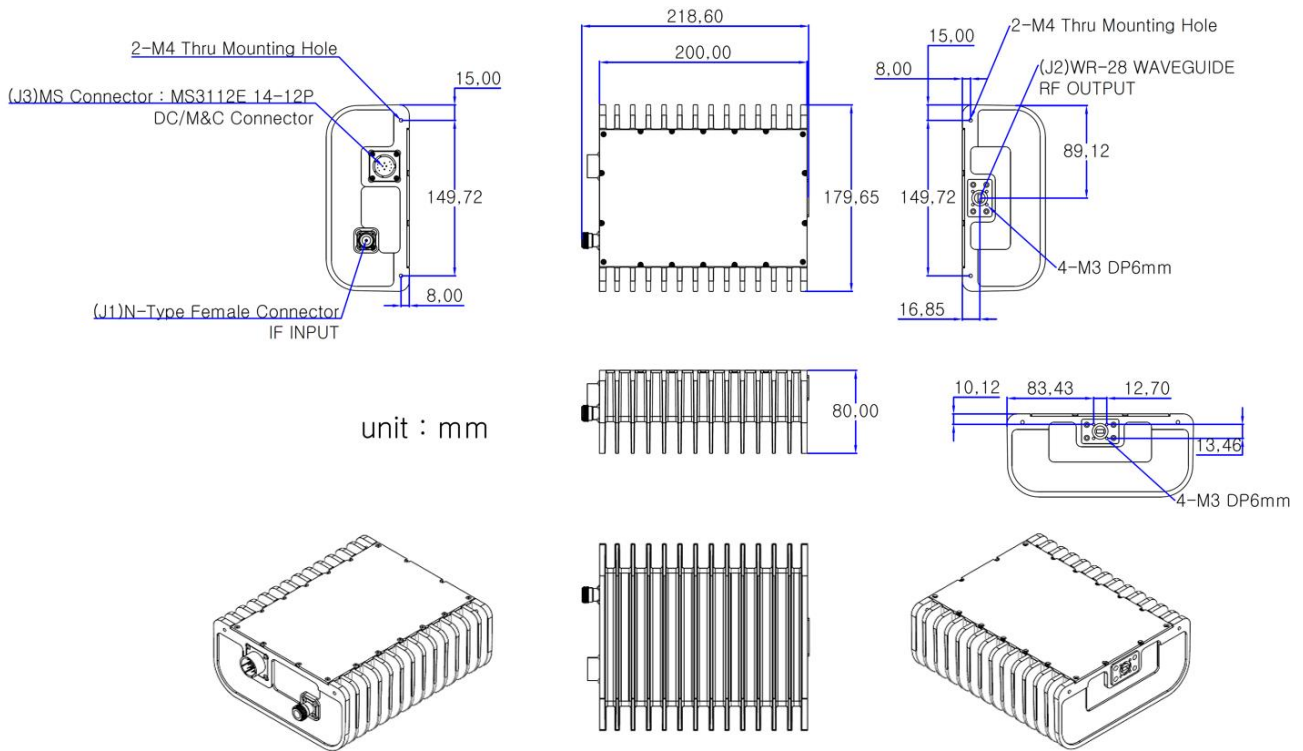
DC/M&C option .....	<b>A:</b> DC via IFL, fixed gain, no M&C <b>B:</b> DC via IFL, fixed gain, M&C <b>C:</b> DC via IFL, gain adjustable, M&C <b>CW:</b> DC via IFL, gain adjustable, M&C (Web browser) <b>D:</b> DC via MS connector, fixed gain, M&C <b>E:</b> DC via MS connector, gain adjustable, M&C <b>W:</b> DC via MS connector, gain adjustable, M&C (Web browser)
Input connector .....	<b>N:</b> 50Ω, <b>F:</b> 75Ω
Output power .....	<b>05:</b> 5W (+37dBm)
Frequency .....	<b>27:</b> 27.652 - 28.388 GHz, <b>28:</b> 28.172 - 29.071 GHz
Product .....	<b>T:</b> BUC 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)
A	Fixed Gain	IFL	Unavailable	Unavailable	Unavailable
B	Fixed Gain	IFL	MS3112E14-12P (12-pin)	Available	Unavailable
C	Adjustable	IFL	MS3112E14-12P (12-pin)	Available	Unavailable
CW	Adjustable	IFL	MS3112E14-12P (12-pin)	Available	Available
D	Fixed Gain	MS3112E14-12P (12-pin)		Available	Unavailable
E	Adjustable	MS3112E14-12P (12-pin)		Available	Unavailable
W	Adjustable	MS3112E14-12P (12-pin)		Available	Available

## OUTLINE DRAWING AND INTERFACE



Connector	Parameter	Description
J1	IF input connector	N-female, panel-mounted
	Impedance	50 ohm
	10MHz reference input	
	DC Power (Option-A/B/C/CW)	DC Power (+43 to +53 VDC)
J2	RF output connector	WR-28
J3	DC / M&C(Ethernet or RS232)	Panel-mount (MS3112E14-12P)
	J3-A	Ethernet Tx+
	J3-B	Ethernet Tx-
	J3-C	Ethernet Rx+
	J3-D	Ethernet Rx-
	J3-E	
	J3-F	RS-232 GND
	J3-G	RS-232 TxD
	J3-H	RS-232 RxD
	J3-J (Option-D/E/W)	DC Power (+43 to +53 VDC)
	J3-K (Option-D/E/W)	DC Power Return
	J3-L	EXT Mute High (Option*)
J3-M	EXT Mute GND (Option*)	

\* External mute option is available upon customer request. External mute is activated by connecting EXT Mute HIGH(J3-L) to EXT Mute GND(J3-M).