

**SATCOM TRANSMITTER**

# BUC

## Ka Dual-band 5W BUC

### TD2805

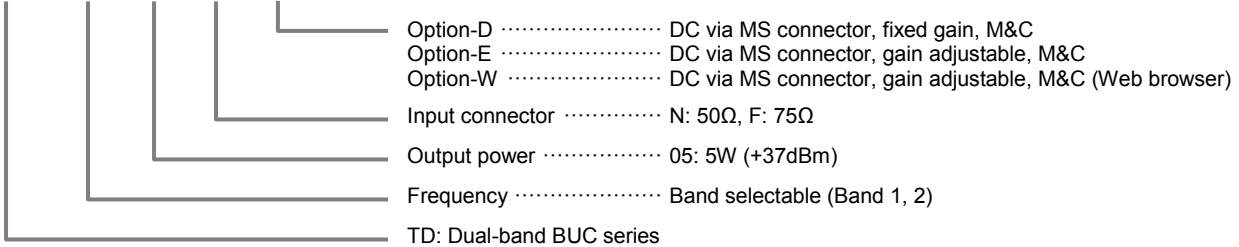


**TYPICAL SPECIFICATIONS**

<b>Output frequency</b>	Band 1: 27.652 - 28.388 GHz Band 2: 28.172 - 29.071 GHz	<b>Spurious (In/Out-band)</b>	-50dBc max @linear power
<b>Input frequency</b>	Band 1: 1052 - 1788 MHz Band 2: 972 - 1871 MHz	<b>Gain</b>	65dB max
<b>LO frequency</b>	Band 1: 26.60GHz Band 2: 27.20GHz	<b>Gain control</b>	Δ15dB, 1dB step
<b>Frequency sense</b>	No inversion	<b>Gain stability over temp</b>	±2.5dB at any const. frequency
<b>Saturate 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>Maximum linear output power</b>	+35dBm min	<b>Power requirement</b>	+43 to +53 VDC supplied through 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>DC, M&amp;C interface</b>	Ethernet or RS232 through MS3112E14-12P connector - Output power - Temperature - LO status - Output power mute - Gain control - EXT mute - Firmware upgradable - Band switching

**HOW TO ORDER Ka DUAL-BAND 5W BUC**

## TD2805N-E

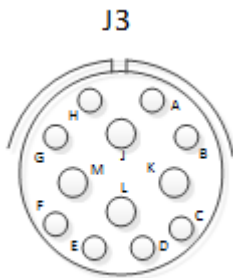
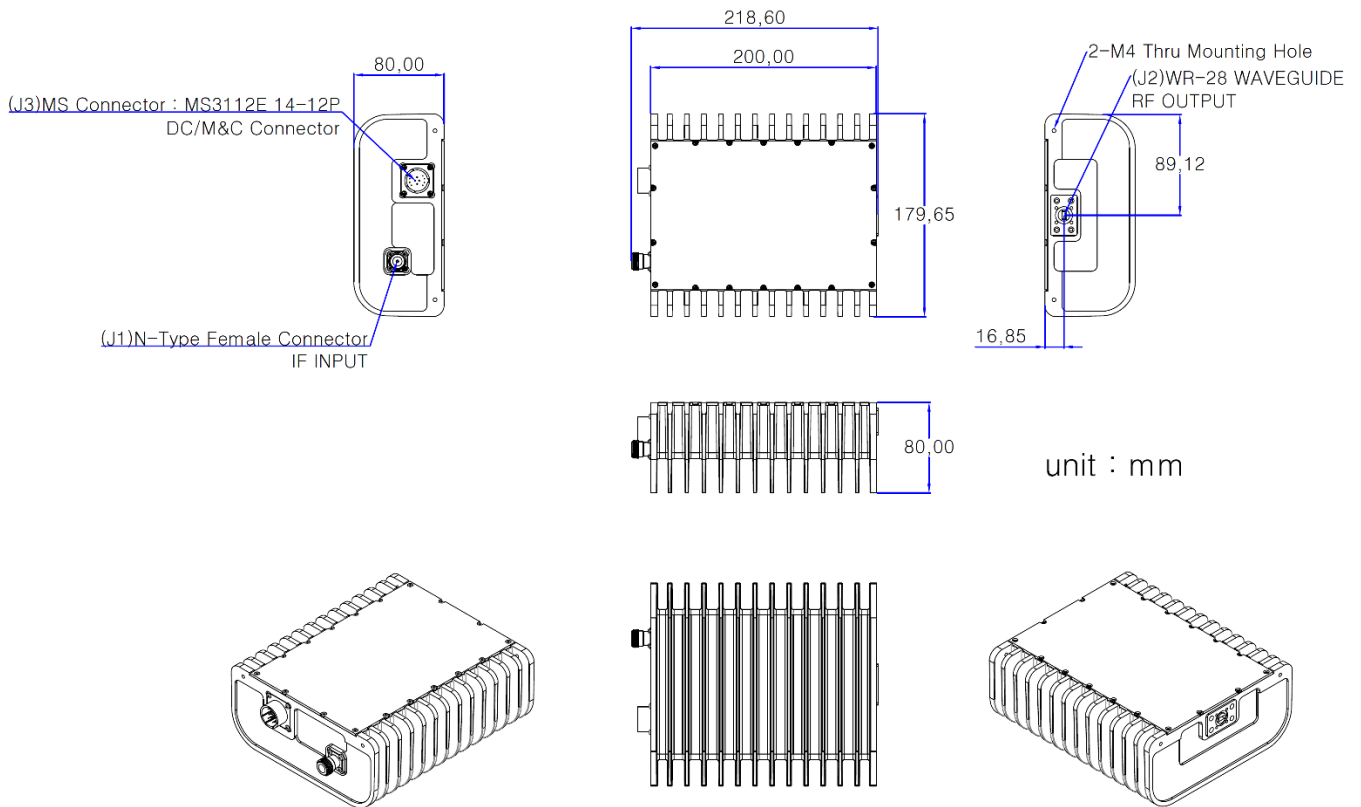


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### AVAILABLE OPTIONS

Option	Gain Control	Connectors		M&C		
		DC Input	M&C	PC-based GUI (Ethernet or RS-232)	Web-based GUI (Web browser)	SNMP
D	Fixed Gain	MS3112E14-12P (12-pin)		Available	Unavailable	Unavailable
E	Adjustable	MS3112E14-12P (12-pin)		Available	Unavailable	Unavailable
W	Adjustable	MS3112E14-12P (12-pin)		Available	Available	Unavailable

### OUTLINE DRAWING AND INTERFACE



Connector	Parameter	Description
J1	IF input connector	N-female, panel-mounted
	Impedance	50 ohm
J2	10MHz reference input	
	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	DC Power (+43 +53 VDC)
	J3-K	DC Power Return
	J3-L	Mute @High
J3-M	Mute Return (RS-232 GND)	