

**SATCOM TRANSMITTER**

# BUC

## Ka Quad-band 1W BUC

### TQ3001



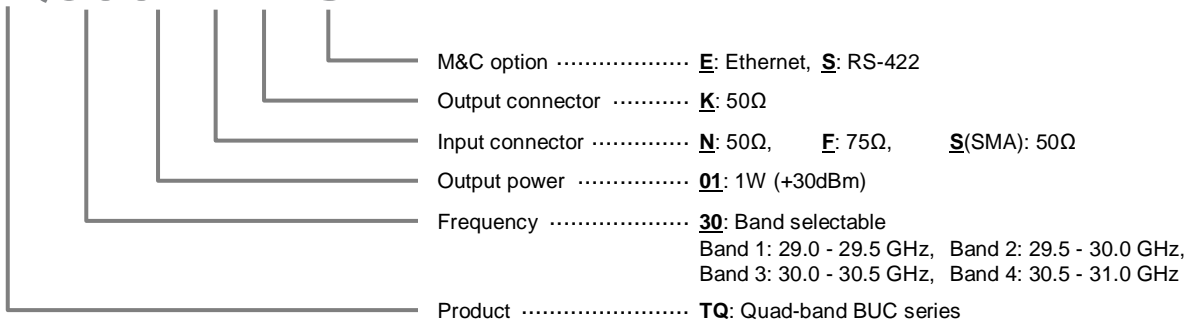
### TYPICAL SPECIFICATIONS

<b>Output frequency</b>	Band 1: 29.0 - 29.5 GHz Band 2: 29.5 - 30.0 GHz Band 3: 30.0 - 30.5 GHz Band 4: 30.5 - 31.0 GHz	<b>Spurious (In/Out-band)</b>	-50dBc max
<b>Input frequency</b>	950 - 1450 MHz for each band	<b>Gain over full-band</b>	20dB typ
<b>LO frequency</b>	Band 1: 28.05GHz Band 2: 28.55GHz Band 3: 29.05GHz Band 4: 29.55GHz	<b>Gain stability over temp</b>	±2dB at any const. frequency
<b>Frequency sense</b>	No inversion	<b>Gain flatness</b>	±2dB over each band
<b>P1dB output power</b>	+30dBm min	<b>Power requirement</b>	+18 to +36VDC supplied through MS connector
<b>Input return loss</b>	10dB max	<b>Power consumption</b>	40W max
<b>Output return loss</b>	10dB max	<b>Input interface</b>	N-female, F-female, SMA-female
<b>Phase noise (SSB)</b>	-63dBc/Hz max @100Hz -73dBc/Hz max @1KHz -83dBc/Hz max @10KHz -93dBc/Hz max @100KHz	<b>Output interface</b>	K-female
<b>External reference signal frequency</b>	10MHz	<b>Dimensions</b>	180(L) x 150(W) x 50(H) mm
<b>External reference level</b>	-5 to +5 dBm	<b>Weight</b>	2.0kg
<b>External reference phase noise</b>	-145dBc/Hz max @1KHz	<b>Operating temperature</b>	-40 to +55 °C
		<b>Humidity</b>	0 - 95 %
		<b>DC, M&amp;C interface</b>	MS422 through MS3112E14-12P connector - Temperature - LO status - Output power mute - Band Switching

\* External mute option is available upon customer request.

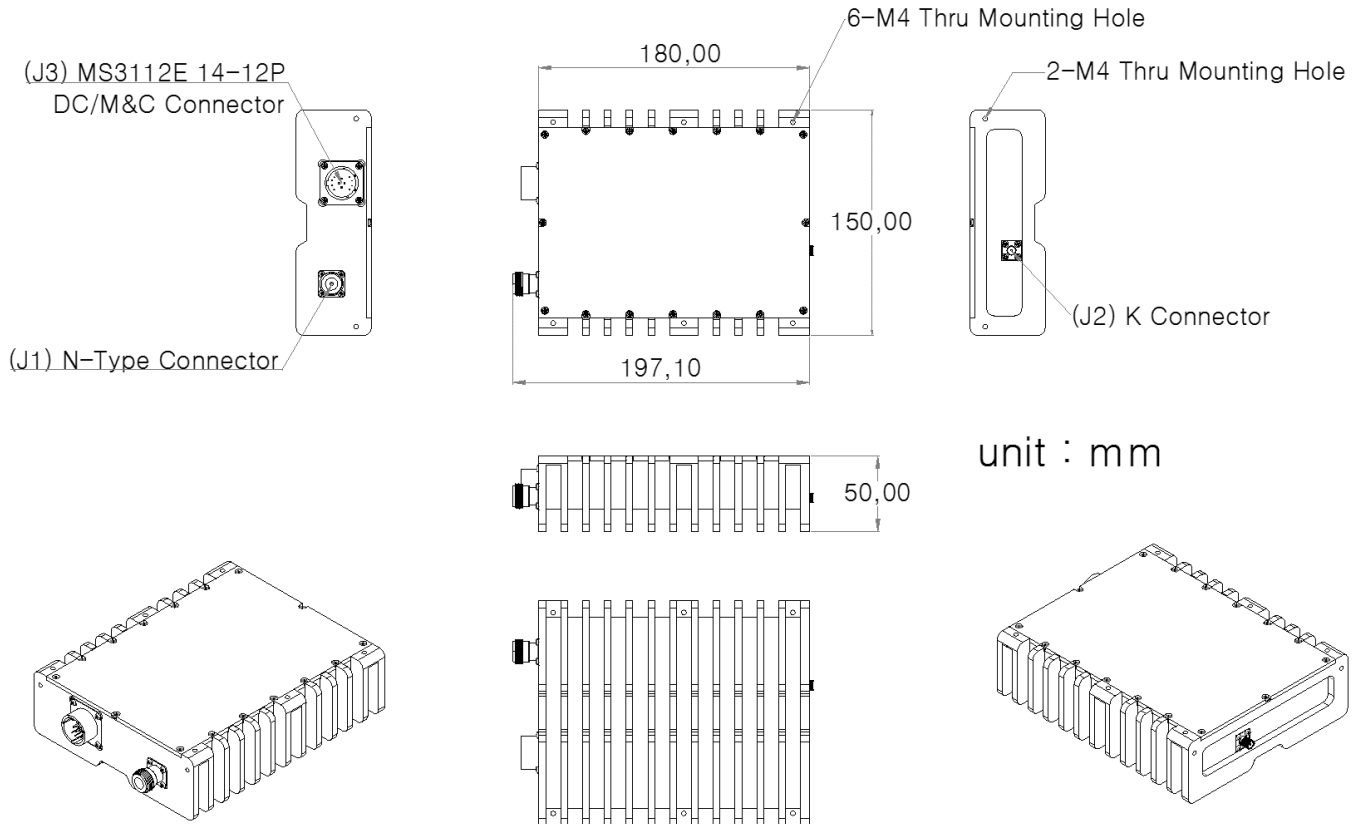
### HOW TO ORDER Ka QUAD-BAND 1W BUC

## TQ3001NK-S

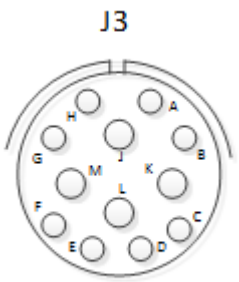


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**OUTLINE DRAWING AND INTERFACE**



unit : mm



Connector	Parameter	Description
J1	IF input connector	N-female, panel-mounted
	Impedance	50 ohm
	10MHz reference input	
J2	RF output connector	K(2.92mm)-female
	Impedance	50 ohm
J3	DC / M&C(RS422)	Panel-mount (MS3112E14-12P)
	J3-A	RS-422 Tx+
	J3-B	RS-422 Tx-
	J3-C	RS-422 Rx+
	J3-D	RS-422 Rx-
	J3-E	
	J3-F	EXT Mute High (Option*)
	J3-G	EXT Mute GND (Option*)
	J3-H	
	J3-J	DC Power (+18 to +36 VDC)
	J3-K	DC Power Return
	J3-L	
	J3-M	

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