

SATCOM TRANSMITTER

BUC

Ku-band 4W BUC

T1304, T1404



TYPICAL SPECIFICATIONS

Output frequency	T1304: 13.75 to 14.50 GHz T1404: 14.00 to 14.50 GHz	Gain	60dB max
Input frequency	T1304: 950 to 1700 MHz T1404: 950 to 1450 MHz	Gain control	Δ15dB, 1dB step
LO frequency	T1304: 12.80GHz T1404: 13.05GHz	Gain stability over temp	±2.5dB at any const. frequency
Frequency sense	No inversion	Gain flatness	±1.0dB in any 36MHz ±2.5dB over full band
Output P1dB	+36dBm min	Power requirement	+22 to +27 VDC supplied through IFL or MS connector
Input return loss	12dB min	Power consumption	60W max
Output return loss	12dB min	Input interface	N-female, F-female
Phase noise (SSB)	-60dBc/Hz max @100Hz -73dBc/Hz max @1KHz -83dBc/Hz max @10KHz -93dBc/Hz max @100KHz	Output interface	WR-75
External reference signal frequency	10MHz	Dimension	223.5(L) x 150(W) x 83(H) mm
External reference level	-5 to +5 dBm	Weight	3.5Kg
External reference Phase noise	-140dBc/Hz max @1kHz	Operating temp	-40 to 55 °C
Spurious		Humidity	0 - 95 %
In-band	-60dBc	DC, M&C interface	Ethernet or RS232 through MS3112E14-12P connector
Out-band	-50dBc		- Temperature - LO status - Output power mute - Gain control - EXT mute - Firmware upgradable

HOW TO ORDER Ku-BAND 4W BUC

T1304N-E

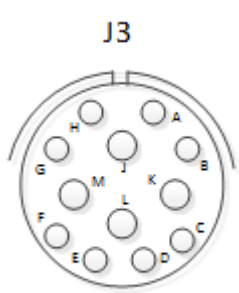
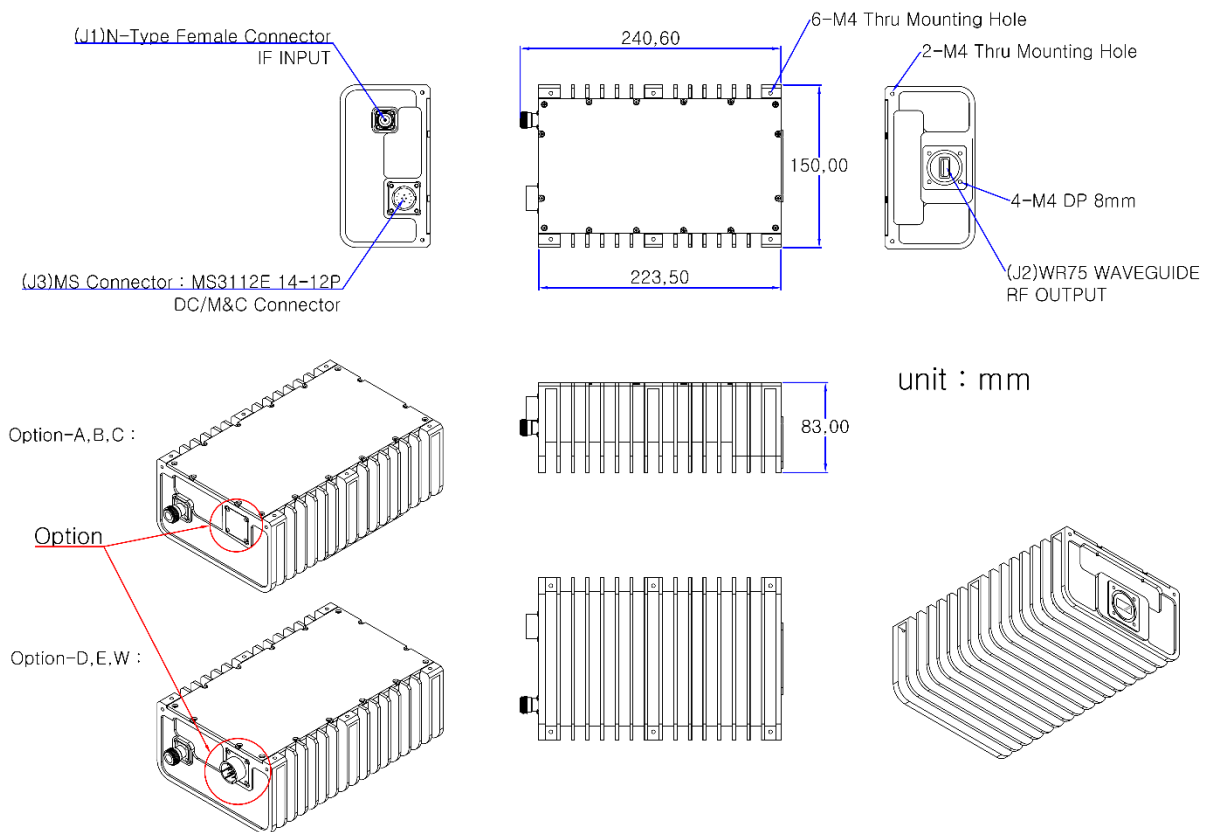
Option-A	DC via IFL, fixed gain, no M&C
Option-B	DC via IFL, fixed gain, M&C
Option-C	DC via IFL, gain adjustable, M&C
Option-D	DC via MS connector, fixed gain, M&C
Option-E	DC via MS connector, gain adjustable, M&C
Option-W	DC via MS connector, gain adjustable, M&C (Web browser)
Input connector	N: 50Ω, F: 75Ω
Output power	04: 4W (+36dBm)
Frequency	13: 13.75 - 14.5 GHz 14: 14.0 - 14.5 GHz
T:	BUC series

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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
A	Fixed Gain	IFL	Unavailable	Unavailable	Unavailable	Unavailable
B	Fixed Gain	IFL	MS3112E14-12P (12-pin)	Available	Unavailable	Unavailable
C	Adjustable	IFL	MS3112E14-12P (12-pin)	Available	Unavailable	Unavailable
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
	10MHz reference input	
J2	DC (Option-A ~ C)	+22 +27 VDC
	RF output connector	WR-75
J3 (Option-B ~ W)	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 ~ W)	DC Power (+22 +27 VDC)
	J3-K (Option-D ~ W)	DC Power Return
J3-L	Mute @High	
J3-M	Mute Return (RS-232 GND)	