

SATCOM TRANSMITTER

BUC

C-band 10W BUC

T5010, T5110, T5210, T5310, T5410, T6010



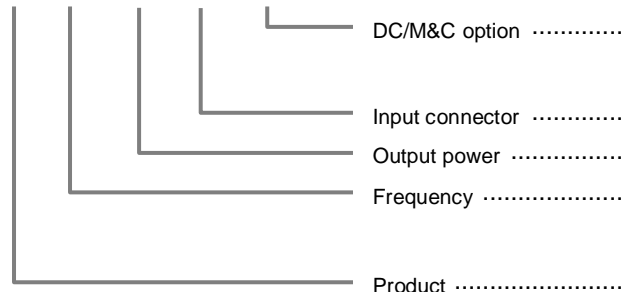
TYPICAL SPECIFICATIONS

Output frequency	T5010: 5.850 to 6.425 GHz T5110: 5.850 to 6.650 GHz T5210: 5.850 to 6.725 GHz T5310: 5.725 to 6.525 GHz T5410: 5.725 to 6.225 GHz T6010: 6.725 to 7.025 GHz	Spurious (In/Out-band)	-50dBc
Input frequency	T5010: 950 to 1525 MHz T5110: 950 to 1750 MHz T5210: 950 to 1825 MHz T5310: 950 to 1750 MHz T5410: 975 to 1475 MHz T6010: 950 to 1250 MHz	Gain	65dB typ @0dB attenuation
LO frequency	T5010: 4.9GHz T5110: 4.9GHz T5210: 4.9GHz T5310: 4.775GHz T5410: 4.75GHz T6010: 5.775GHz	Gain control	Δ15dB (50 to 65 dB), 1dB step
Frequency sense	No inversion	Gain stability over temp	±2.5dB at any const. frequency
Output P1dB	+40dBm min	Gain flatness	±1.0dB in any 36MHz ±2.5dB over full band
Input return loss	10dB min	Power requirement	+22 to +27 VDC supplied through IFL or MS connector
Output return loss	10dB min	Power consumption	80W max
Phase noise (SSB)	-60dBc/Hz max @100Hz -73dBc/Hz max @1KHz -83dBc/Hz max @10KHz -93dBc/Hz max @100KHz	Input interface	N-female, F-female
External reference Signal frequency / level	10MHz / -5 to +5 dBm	Output interface	CPR-137G
External reference Phase noise	-140dBc/Hz max @ 1kHz	Dimension	223.5(L) x 150(W) x 83(H) mm
		Weight	3.5Kg
		Operating temp	-40 to +55 °C
		Humidity	0 - 95 %
		DC, M&C interface	Ethernet or RS232 through MS3112E14-12P connector - Temperature - LO status - Output power mute - Gain control - Firmware upgradable

* External mute option is available upon customer request.

HOW TO ORDER C-BAND 10W BUC

T5010N-E



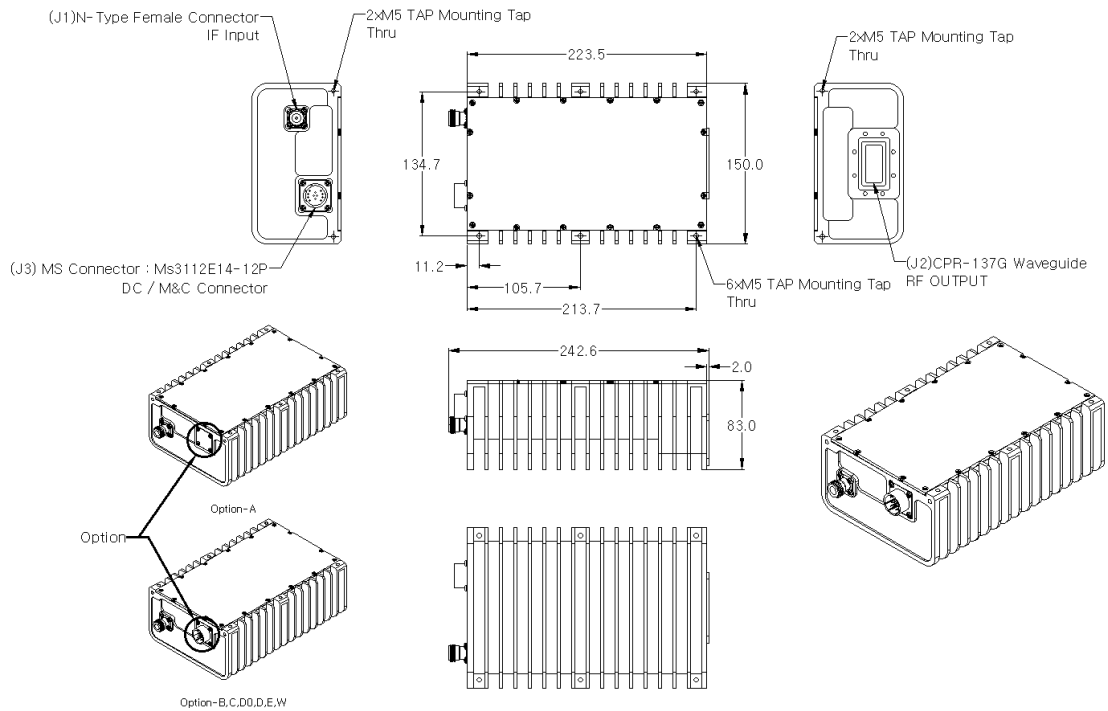
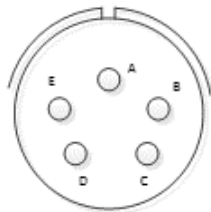
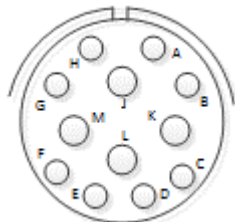
- A:** DC via IFL, fixed gain, no M&C
- B:** DC via IFL, fixed gain, M&C
- C:** DC via IFL, gain adjustable, M&C
- DO:** DC via MS connector, fixed gain, no M&C
- D:** DC via MS connector, fixed gain, M&C
- E:** DC via MS connector, gain adjustable, M&C
- W:** DC via MS connector, gain adjustable, M&C (Web browser)
- N:** 50Ω, **E:** 75Ω
- 10:** 10W (+40dBm)
- 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
- 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)
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
D0	Fixed Gain	MS3112E14-5P (5-pin)	No M&C Function	No M&C Function	
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


**J3
(Opt. D0)**

**J3
(Opt. B/C/D/E/W)**


Connector	Parameter	Description
J1	IF input connector	N-female, panel-mounted
	Impedance	50 ohm
	10MHz reference input	
J2	RF output connector	WR-75
J3 (Opt. D0)	DC	Panel-mount (MS3112E14-5P)
	A	N.C.(Not connected)
	B, C	+22 to +27 VDC (DC Power +)
	D, E	GND (DC Power -)
J3 (Opt. B/C/D/E/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	DC Power (+22~+27 VDC) (Opt. D/E/W)
	J3-K	DC Power Return (Opt. D/E/W)
	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).