

SATCOM TRANSMITTER

BUC

C-band 100W BUC (GaN)

T50100, T51100, T52100, T53100



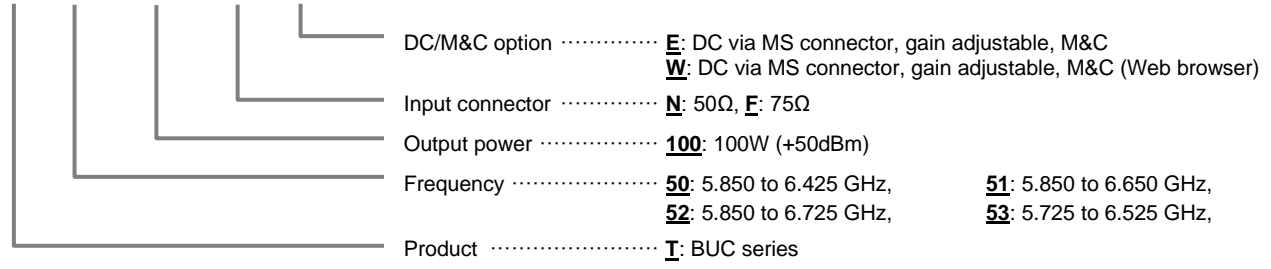
TYPICAL SPECIFICATIONS

Output frequency	T50100: 5.850 to 6.425 GHz T51100: 5.850 to 6.650 GHz T52100: 5.850 to 6.725 GHz T53100: 5.725 to 6.525 GHz	Gain	80dB typ
Input frequency	T50100: 950 to 1525 MHz T51100: 950 to 1750 MHz T52100: 950 to 1825 MHz T53100: 950 to 1750 MHz	Gain control	Δ15dB, 0.5dB step
LO frequency	T50100: 4.9GHz T51100: 4.9GHz T52100: 4.9GHz T53100: 4.775GHz	Gain stability over temp	±2.0dB max
Frequency sense	No inversion	Gain flatness	±1.0dB in any 36MHz ±2.5dB over full band
Saturated output power	+50dBm typ.	Power requirement	+43 to +53 VDC supplied through MS connector
Input return loss	12dB min	Power consumption	500W max
Output return loss	14dB min	Input interface	N-female, F-female
Phase noise (SSB)	-70dBc/Hz max @100Hz -82dBc/Hz max @1KHz -94dBc/Hz max @10KHz -100dBc/Hz max @100KHz	Output interface	CPR-137G
External reference Signal frequency	10MHz	Dimension	280(L) x 162(W) x 160(H) mm
External reference level	-5 to +5 dBm	Weight	8Kg max
External reference phase noise	-140dBc/Hz max @1KHz	Operating temp	-40 to +55 °C
Spurious (In/Out-band)	-50dBc	Humidity	0 - 95 %
		DC connector	MS3112E14-5P
		M&C interface	MS3112E12-10P
		M&C function	- Output power - Temperature - LO status - Output power mute - Gain control - Fan status - Firmware upgradable

* External mute option is available upon customer request.

HOW TO ORDER C-BAND 100W BUC

T50100N-E

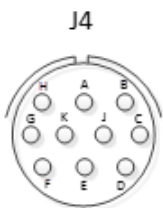
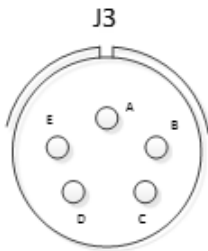
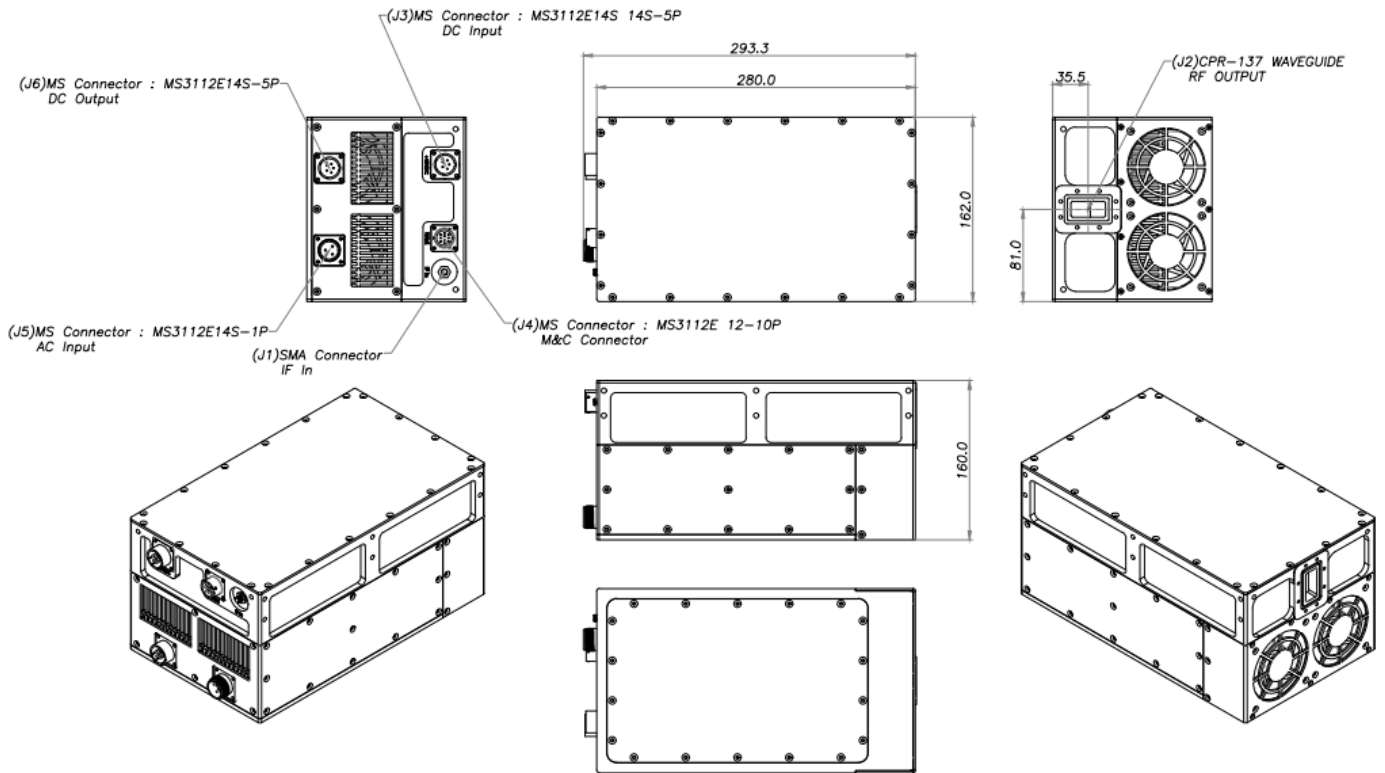


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AVAILABLE OPTIONS

Option	Gain Control	Connectors		M&C	
		DC Input	M&C	PC-based GUI (Ethernet or RS-232)	Web-based GUI (Web browser)
E	Adjustable	MS3112E14-5P (5-pin)	MS3112E12-10P (10-pin)	Available	Unavailable
W	Adjustable	MS3112E14-5P (5-pin)	MS3112E12-10P (10-pin)	Available	Available

OUTLINE DRAWING AND INTERFACE



Connector	Parameter	Description
J1	IF input connector	N-female, panel-mounted
	Impedance	50 ohm
	10MHz reference input	
J2	RF output connector	CPR-137
J3	AC	Panel-mount (MS3102A14S-1P)
	A	AC-N (Neutral)
	B	AC H (Hot)
	C	F.G. (Frame Ground)
J4	M&C(Ethernet or RS232)	Panel-mount (MS3112E12-10P)
	J4-A	RS-232 Tx
	J4-B	RS-232 Rx
	J4-C	Ethernet Rx-
	J4-D	
	J4-E	EXT Mute GND (Option*)
	J4-F	EXT Mute HIGH (Option*)
	J4-G	Ethernet Tx+
	J4-H	RS-232 GND
	J4-J	Ethernet Rx+
	J4-K	Ethernet Tx-

* External mute option is available upon customer request. External mute is activated by connecting EXT Mute HIGH(J4-F) to EXT Mute GND(J4-E).