



Norsat

International Inc.

Innovative Communication Solutions



BUC

X-BAND 10W

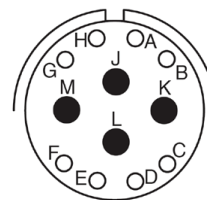
5010XRT-3



TYPICAL SPECIFICATIONS

Output frequency	7.9 to 8.4 GHz
Input frequency	950 to 1450 MHz
Output to P1dB	40 dBm min.
L.O. frequency	6.95 GHz
Input VSWR	2.0 : 1 max
Output VSWR	1.5 : 1 max
Phase noise (SSB) maximum	-73 dBc/Hz at 1 kHz -83 dBc/Hz at 10 kHz -93 dBc/Hz at 100 kHz
External reference signal frequency	10 MHz
External reference level	-5 to +5 dBm
External reference phase noise	-130 dBc/Hz max at 100Hz -143 dBc/Hz max at 1 kHz -152 dBc/Hz at 10 kHz
Gain	60 - 65 dB (Fixed) 50 - 65 dB (1dB step)
Gain stability over temperature	±2.5 dB at any constant frequency
Gain flatness	±0.5 dB in any 36 MHz ±2.0 dB over full band
Mute	@ LO unlock or temp over 85°C
Operating temperature	-40°C to 55°C
Power requirements	+32 to +56 V supplied through MS connector or IF connector
Power consumption	85W max
Input interface	N-female, F-female
Output interface	CPR-112G
Dimensions	243 (L) x 150 (W) x 83 (H) mm
Weight	3.5 kg
M & C interface	Ethernet or RS232 through MS3112e14-12P connector - Output power - Temperature - LO status - Output power mute

Connector	Parameter	Description
J1	IF input connector	N-female, panel-mounted
	Impedance	50 ohm
	10MHz reference input	
J2	RF output connector	CPR-112G waveguide flange
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 (+32 to +56V)
	J3-K	DC Power return
	J3-L	Mute @ High
	J3-M	Mute return (=RS-232 GND)



HOW TO ORDER

5010XRT-3

CONNECTOR	N - 50 Ohm F - 75 Ohm
P1dB	10W (40 dBm)
TRANSMITTER SERIES #	



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North America
+1 800 644 4562

Asia Pacific
+1 604 821 2813

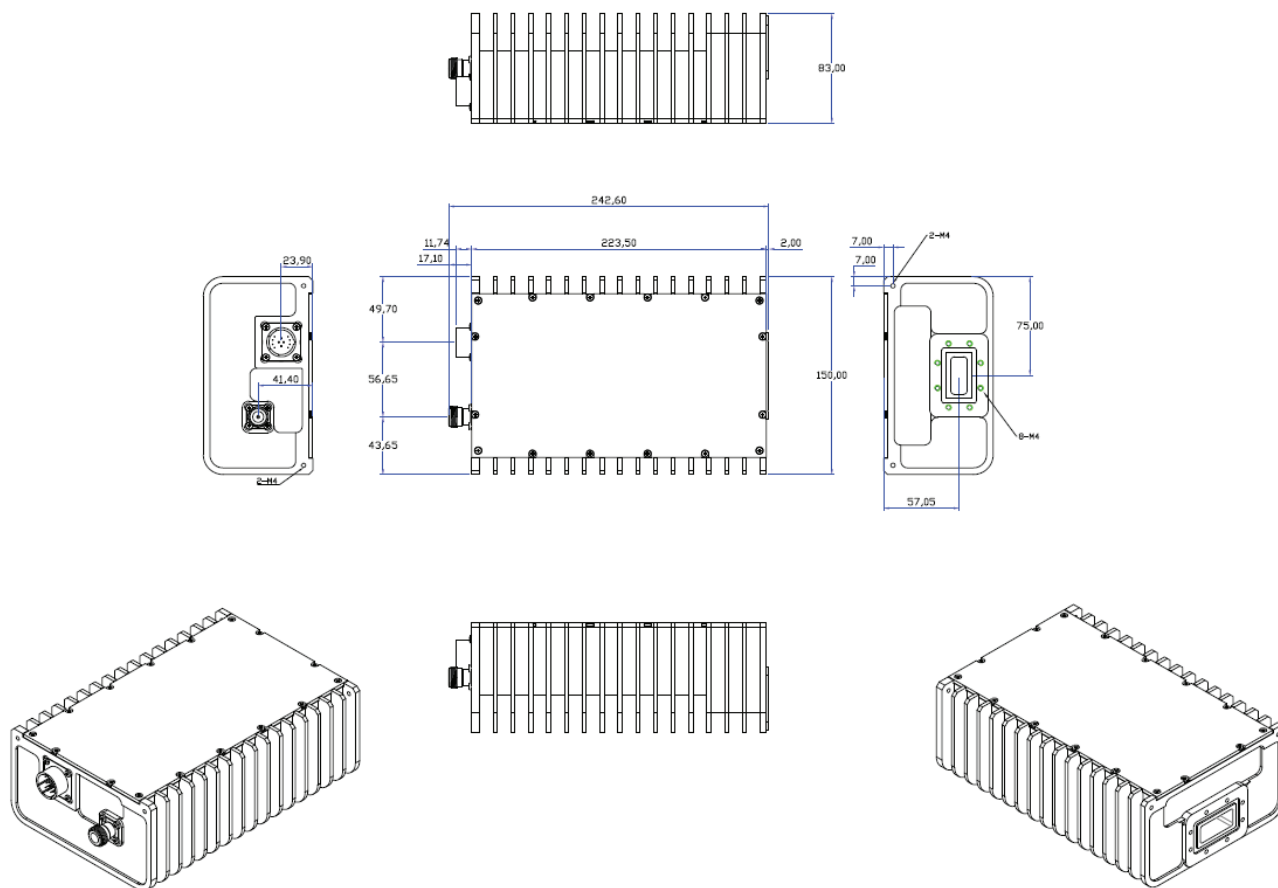
Europe, Middle East & Africa
+44 1522 730 800

South America
+1 604 821 2835

Online
sales@norsat.com
www.norsat.com

X-BAND 10W 5010XRT-3

MECHANICAL DIAGRAM



Norsat
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North America
+1 800 644 4562

Asia Pacific
+1 604 821 2813

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