RFI2216XCT
Ka-Band VSAT Transceiver

The RF Instruments transceiver is the Ka-Band VSAT transceiver capable of always-on connectivity on SCPC or TDMA data networks for demanding enterprise or government applications. The compact, rugged and lightweight IP-67 sealed enclosure integrates a BUC, PLL LNB, OMT, and TRF, guaranteeing consistent communications performance. Supporting flexible field-configurable circular polarization and a broad array of L-Band or S-Band IF modems, the XRC is optimized for high volume manufacturing with 1.5 and 5 watt transmit power options.

Specification of TX Subsystem (BUC)

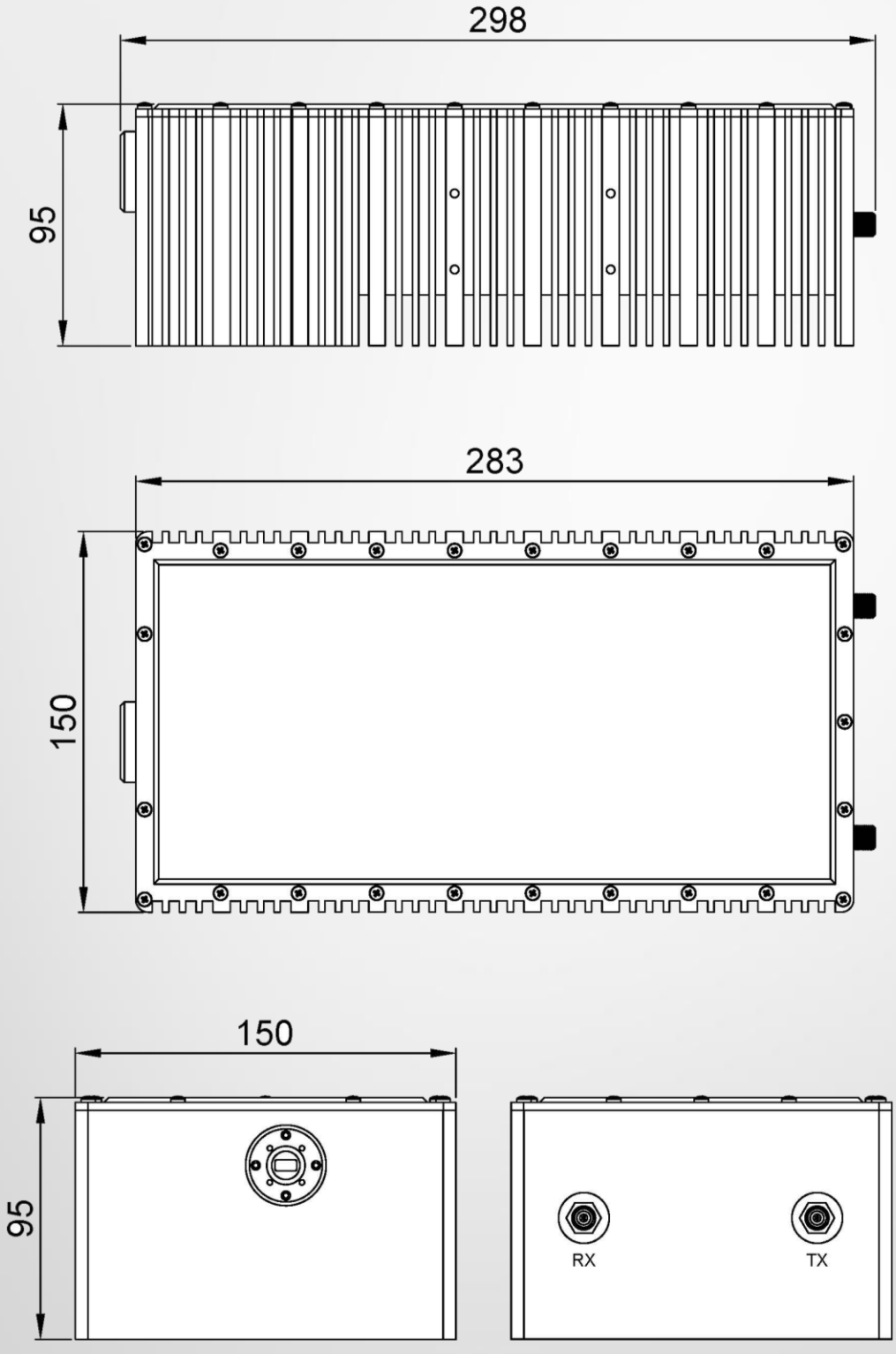
Parameter	Min.	Typ.	Max.	Units
IF Input Frequency Range	950		1450	MHz
RF Output Frequency Range	29.5		30	GHz
Local Oscillator Frequency (Nominal)		28.5		GHz
Local Oscillator External Reference Frequency (Nominal)		10		MHz
RF Output Power, P1dB		34.5		dBm
Conversion Gain, Linear Operation	52	55	58	dB
IF Input Drive Power, Nominal Operation	-17			dBm
RF Output Spurious Level	According EN 301459 and FCC 47 CFR 15/25 AB			
IF Input Impedance (Nominal)		75		Ohm
IF Input Connector	F-type Receptacle			
Supply Voltage	13		24	V
Supply Current		1	1.5	A

Specification of RX Subsystem (LNB)

Parameter	Min.	Typ.	Max.	Units
RF Input Frequency Range	19.2		20.2	GHz
IF Output Frequency Range	950		1950	MHz
Local Oscillator Frequency (Nominal)		18.25		GHz
Local Oscillator External Reference Frequency (Nominal)		10		MHz
RF Output Power, P1dB		34.5		dBm
Conversion Gain, Linear Operation	50	56	60	dB
Image Band Rejection	30			Bm
IF Output Impedance (Nominal)		75		Ohm
IF Output Connector	F-type Receptacle			
Supply Voltage	13		24	V
Supply Current		450		mA

General

Parameter	Min.	Typ.	Max.	Units
Common Port Connector	Waveguide UG-425/U			
Operating Temperature	- 40		65	ºC
Weight	3500			g
Moisture/ Humidity Protection				IP67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RX
TX

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