



# BUC

## KA-BAND 20W

### 7020STC-O3B

### TYPICAL SPECIFICATIONS

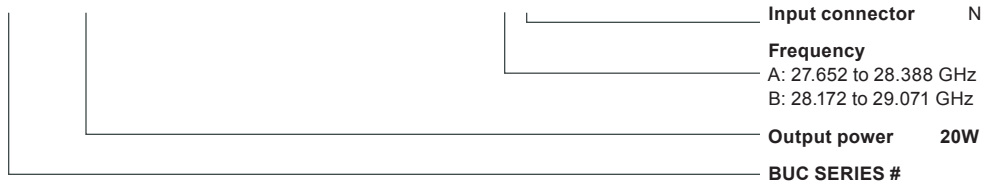


<b>Output frequency</b>	A: 27.652 to 28.388 GHz B: 28.172 to 29.071 GHz
<b>Input frequency</b>	A: 1052 to 1788 MHz B: 972 to 1871 MHz
<b>L.O. frequency</b>	A: 26.6 GHz, B: 27.20 GHz
<b>Frequency conversion</b>	Double conversion
<b>Frequency sense</b>	No inversion
<b>Saturate Output power</b>	43 dBm (nominal)
<b>Maximum linear output power</b>	41 dBm min @ 25°C with derating at high temperature
<b>Input return loss</b>	12 dB min
<b>Output return loss</b>	12 dB min
<b>Phase noise (SSB)</b>	-60 dBc max at 1 KHz -73 dBc max at 10 KHz -83 dBc max at 100 KHz -93dBc max.@100KHz
<b>External reference signal frequency</b>	10 MHz
<b>External reference level</b>	-5 to +5 dBm
<b>External reference phase noise</b>	-145 dBc max @ 1 KHz
<b>Spectral Regrowth</b>	25 dBc max @ linear power
<b>Group delay variation</b>	±5.0 nanoseconds over any 45MHz

<b>Spurious (In/Out band)</b>	-60dBc max@ 41 dBm
<b>Gain control</b>	73 dB max (15dB, 1dB step)
<b>Gain stability over temperature</b>	±2.0 dB at any constant frequency
<b>Gain flatness</b>	±1.0 dB in any 45 MHz ±2.5dB over full band
<b>Power Requirement</b>	+36 to +72V supplied through MS connector
<b>Power consumption</b>	250W max.
<b>Input interface</b>	N-female
<b>Output interface</b>	WR-28
<b>Dimensions</b>	256 (L) x 185 (W) x 177.4 (H) mm
<b>Weight</b>	7.0 kg
<b>Operating Temp.</b>	-40 °C to +55 °C
<b>Humidity</b>	0 - 95 %
<b>M &amp; C Interface</b>	Ethernet or RS232 through MS3112e14-12P connector -Output power -Temperature - LO status -Output power mute -Gain control -Power supply -Band switching

### HOW TO ORDER

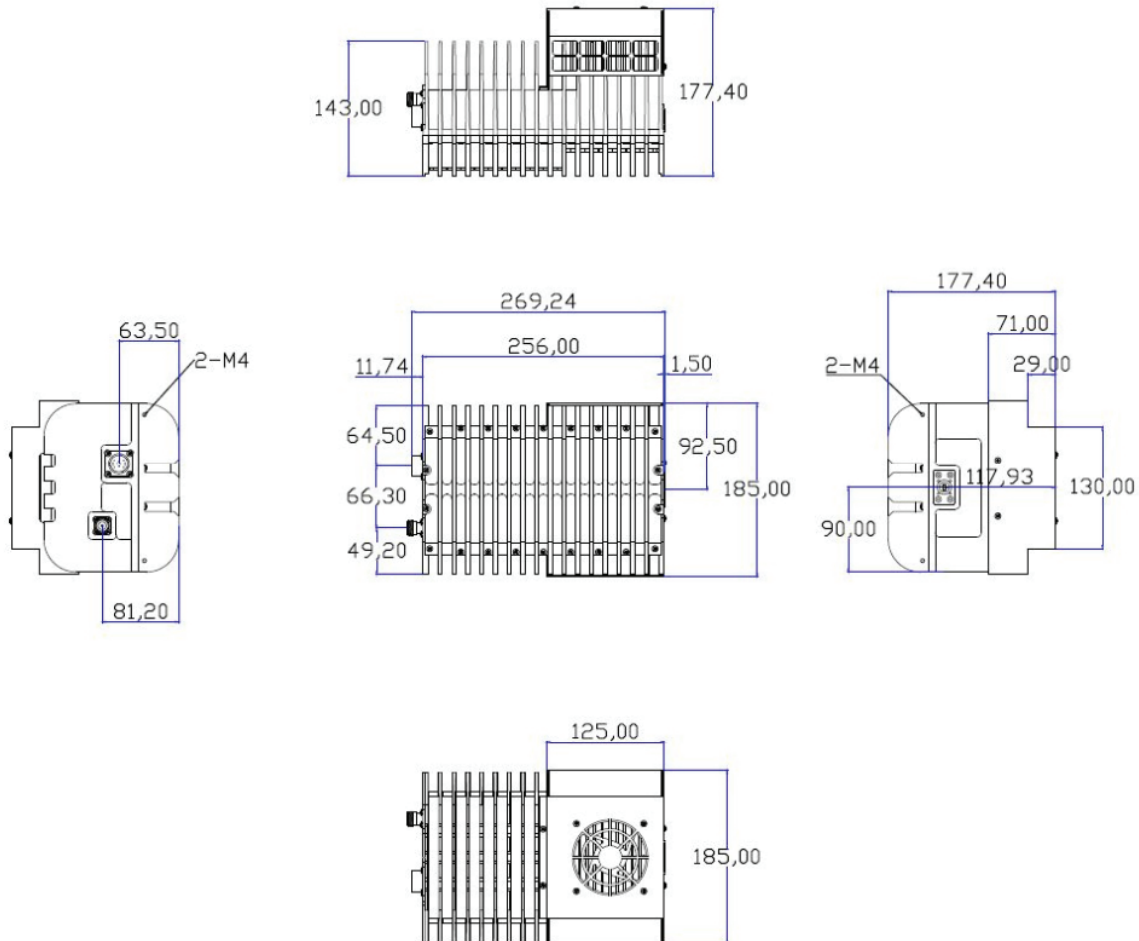
## 7020STC-O3B-AN



# KA-BAND 20W 7020STC- O3B

Connector	Parameter	Description
J1	IF Input Connector	N-Female, panel mounted
	Impedance	50 ohm
	10 MHz Reference input	
J2	RF output connector	WR28
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 (+36 to +72V)
	J3-K	DC Power return
	J3-L	Mute @ High
	J3-M	Mute return (=RS-232 GND)

## MECHANICAL DIAGRAM



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