



BUC

KA-BAND 20W

7020STC-O3B



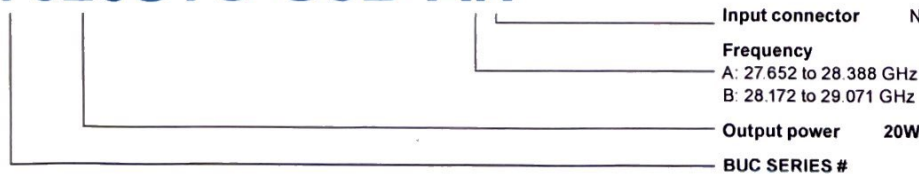
TYPICAL SPECIFICATIONS

Output frequency	A: 27.652 to 28.388 GHz B: 28.172 to 29.071 GHz
Input frequency	A: 1052 to 1788 MHz B: 972 to 1871 MHz
L.O. frequency	A: 26.6 GHz, B: 27.20 GHz
Frequency conversion	Double conversion
Frequency sense	No inversion
Saturate Output power	43 dBm (nominal)
Maximum linear output power	41 dBm min @ 25°C with derating at high temperature
Input return loss	12 dB min
Output return loss	12 dB min
Phase noise (SSB)	-60 dBc max at 1 KHz -73 dBc max at 10 KHz -83 dBc max at 100 kHz -93dBc max.@100KHz
External reference signal frequency	10 MHz
External reference level	-5 to +5 dBm
External reference phase noise	-145 dBc max @ 1 KHz
Spectral Regrowth	25 dBc max @ linear power
Group delay variation	±5.0 nanoseconds over any 216MHz

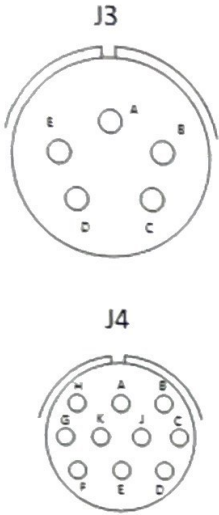
Spurious (In/Out band)	-60dBc max@ linear power
Gain control	70 dB max (15dB, 1dB step)
Gain stability over temperature	±2.0 dB at any constant frequency
Gain flatness	±1.5 dB in any 216 MHz ±2.5dB over full band
Power Requirement	+36 to +72V supplied through MS connector
Power consumption	250W max.
Input interface	N-female
Output interface	WR-28
Dimensions	280 (L) x 160 (W) x 110 (H) mm
Weight	5.5 kg
Operating Temp.	-40 °C to +55 °C
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 - EXT mute - Fan status - Firmware upgradable

HOW TO ORDER

7020STC-O3B-AN

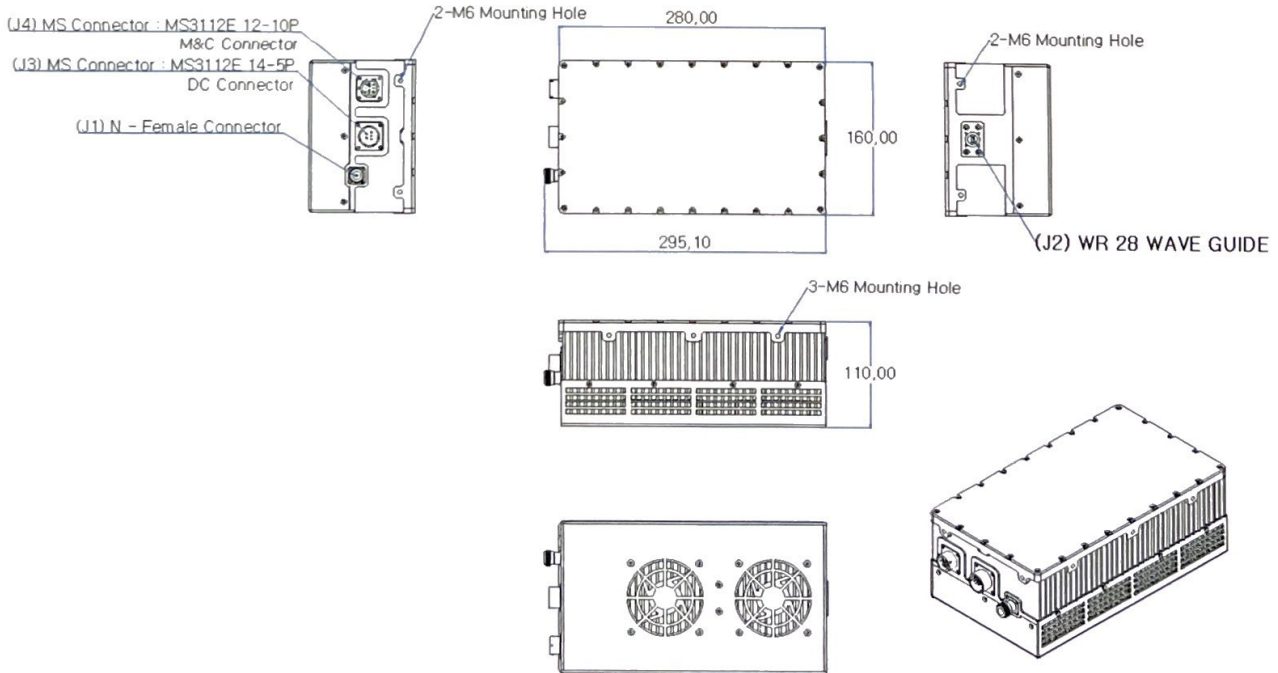


A-BAND 20W 7020STC- O3B



Connector	Parameter	Description
J1	IF input connector	N-female, panel-mounted
	Impedance	50 ohm
	10MHz reference input	
J2	RF output connector	WR-28
J3	DC	Panel-mount (MS3112E14-5P)
	A	N.C.(Not connected)
	B, C	+48V (DC Power +)
	D, E	GND (DC Power -)
	M&C(Ethernet or RS232)	Panel-mount (MS3112E12-10P)
J4	J4-A	RS-232 Tx
	J4-B	RS-232 Rx
	J4-C	Ethernet Rx-
	J4-D	
	J4-E	EXT Mute GND
	J4-F	EXT Mute @High
	J4-G	Ethernet Tx+
	J4-H	RS-232 GND
	J4-J	Ethernet Rx+
	J4-K	Ethernet Tx-

MECHANICAL DIAGRAM



North America
+1 800 644 4562

Asia Pacific
+1 604 821 2813

EMEA
+44 1522 730 800

South America
+1 604 821 2835

Online
www.norsat.com

