



BUC

KA-BAND 20W

7020STC-O3B

TYPICAL SPECIFICATIONS



Output frequency	A: 27.652 to 28.388 GHz B: 28.172 to 29.071 GHz	Spurious (In/Out band)	-60dBc max@ 41 dBm
Input frequency	A: 1052 to 1788 MHz B: 972 to 1871 MHz	Gain control	73 dB max (15dB, 1dB step)
L.O. frequency	A: 26.6 GHz, B: 27.20 GHz	Gain stability over temperature	±2.0 dB at any constant frequency
Frequency conversion	Double conversion	Gain flatness	±1.0 dB in any 45 MHz ±2.5dB over full band
Frequency sense	No inversion	Power Requirement	+36 to +72V supplied through MS connector
Saturate Output power	43 dBm (nominal)	Power consumption	250W max.
Maximum linear output power	41 dBm min @ 25°C with derating at high temperature	Input interface	N-female
Input return loss	12 dB min	Output interface	WR-28
Output return loss	12 dB min	Dimensions	256 (L) x 185 (W) x 177.4 (H) mm
Phase noise (SSB)	-60 dBc max at 1 KHz -73 dBc max at 10 KHz -83 dBc max at 100 KHz -93dBc max.@100KHz	Weight	7.0 kg
External reference signal frequency	10 MHz	Operating Temp.	-40 °C to +55 °C
External reference level	-5 to +5 dBm	Humidity	0 - 95 %
External reference phase noise	-145 dBc max @ 1 KHz	M & C Interface	Ethernet or RS232 through MS3112e14-12P connector -Output power -Temperature - LO status -Output power mute -Gain control -Power supply -Band switching
Spectral Regrowth	25 dBc max @ linear power		
Group delay variation	±5.0 nanoseconds over any 45MHz		

HOW TO ORDER

7020STC-O3B-AN



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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

