

BUC-KA

Ka-Band BUC Series



The **Ka-band BUC Series** make the signal up conversion from a Modem's L band output into Ka band frequency in order to perform a terrestrial or satellite communication link. The Ka-band BUC Series are available in output power from 2W to 20W.

BUC includes a 28 GHz low noise local oscillator, up-converter, and Ka band solid state power amplifier. The devices are designed for continuous outdoor operation. Main characteristics are: low oscillator phase noise, high gain, adjustable user gain, high spectral purity and low power consumption

TECHNICAL SPECIFICATIONS

ELECTRICAL

	2W	5W	8W	10W	20W
Output Frequency range	29 to 30 GHz				
Input Frequency range	1 to 2 GHz				
Local Oscillator	28 GHz				
Output Spectrum	Not inverted				
Output Power P1dB	33 dBm	37dBm	39dBm	40dBm	43dBm
Gain	57dB	61dB	63dB	64dB	67dB
Gain flatness over 36MHz	± 0.65 dB in any 36MHz				
Gain flatness full band	± 2 dB in full band 1GHz				
Gain stability over Temp at Constant Frequency	± 2 dB in full band 1GHz				
Gain stability at Constant Temp	± 1 dB 24h				
IMD	-18dBc @ P1dB - 3dB				
SSB Phase Noise	-62dBc/Hz@100Hz -72dBc/Hz@1KHz -82dBc/Hz@10KHz -92dBc/Hz@100KHz -102dBc/Hz@1MHz				
Noise Figure	<15dB				
Input VSWR	< 1.8:1				
Output VSWR	< 1.8:1				
Spurious	< -60 dBc @ P1dB				

MECHANICAL INTERFACES

	2W	5W	8W	10W	20W
Input RF Connector	N				
Output RF Connector	WR28 grooved				
Size	190x150x48 mm	205x165x83 mm		305x165x103 mm	
Weight	<3 Kg	<4.0Kg		<7.0Kg	

POWER SUPPLY

	2W	5W	8W	10W	20W
Operating Voltage	+18 to +36VDC (+24VDC nom)		+36 to +60VDC (+48VDC nom)		
Power Consumption @ Psat	43W	54W	95W	110W	220W

ENVIRONMENTAL

	2W	5W	8W	10W	20W
Operating temperature	-30°C to +60 °C				
Storage temperature	-40 °C to +80°C				
Humidity	100% Condensing				

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