LINWAVE TECHNOLOGY

www.linwave.co.uk

Linwave Miniature Dual Ku Band BUC

LW30-793208

Features

- Dual Hi – Lo Ku band BUC
- Small outline
- Temperature compensated
- Lock detect output
- Can be used with Linwave driver amplifiers

Description

The LW30-793208 uses Linwave's advanced manufacturing process to produce a dual band Ku BUC in a compact outline. The BUC is intended for use in conjunction with a power amplifier and is supplied as a single unit which can be integrated into a complete system.

Alternatively it can be fully weatherised for outdoor use with integral mains power supplies. Further options include lock detect indication and provision of an internal 10MHz reference. The BUC also includes high performance output filtering

Data sheet Iss 01, dated 18/07/16 DS00-793208-01, No. 2335

For price, delivery and to place orders please contact
Linwave Technology Ltd, Marlin Building, Sadler Road, Lincoln, LN6 3RS
Company Reg No 4478971 (England)
Phone:+44 (0) 1522 681811 Fax:+44 (0) 1522 681911
Email enquiries@linwave.co.uk Website www.linwave.co.uk

Specifications

Parameter	Specification	Units	Notes
Low Band			
Output Frequency	12.75 - 13.25	GHz	
Input Frequency	950 - 1450	MHz	
LO Frequency	11.8	GHz	
High Band			
Output Frequency	13.75 – 14.5	GHz	
Input Frequency	950 to 1750	MHz	
LO Frequency	12.8	GHz	
RF Output			
Output Power	0	dBm	Min at 1 dB compression
RF Output Connector	50	Ohms	(f)
Output Return Loss	13.5	dB	
IF Input			
Input level	10	dBm	Max
IF impedance	50	Ohms	
IF Return Loss	12.5	dB	
External Ref			
Frequency	10	MHz	
Power Level	-5 to +7	dBm	
Connector	50	Ohms	(f)
Gain			
Conversion Gain	-2 to +2	dB	
Gain Flatness	+/- 0.5	dB	Over 40 MHz
	+/- 1.0	dB	Full Band
Gain Slope	0.02	dB/MHz	
Gain Stability	2.5	dB	-40°C to +60°C
Conversion Gain	-2 to +2	dB	
Third Order Intercept Point	+15	dB	Min

Linwave reserves the right to make changes, without notice, in the products, including circuits, standard cells, and/or software, described or contained herein in order to improve design and/or performance.

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Parameter	**Specification**	**Units**	**Notes**
Noise			
AM-PM	0.1	°/dB	Max
Noise Figure	15	dB	
Phase Noise	-61 max	dBc/Hz	100Hz offset
	-71 max	dBc/Hz	1 KHz offset
	-81 max	dBc/Hz	10 KHz offset
	-91 max	dBc/Hz	100 KHz offset
	-91 max	dBc/Hz	1 MHz offset
Spurious:			
Carrier Dependent	-65	dBc	In band
Carrier Independent	-85	dBm	In band
Out of Band	-45	dBm	
Physical Characteristics			
Power Supply	15 V dc nominal, 1A typ		
Size & Weight	100 x 125 x 25 mm 750 g		
Temperature Range	-20 to +60 °C operating -40 to +85 °C Storage		
Humidity	95% non-condensing		

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