

# 01-317C WIDEBAND KA LNB



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Ka-band Input Frequency	19.2 to 20.2 GHz, 20.2 to 21.2GHz (switchable)										
L-band Output Frequency	1000-2000 MHz										
Noise Figure	1.3 dB typ, 1.5 dB max (120K) at 20°C										
Gain	60 dB (min)										
Gain Flatness	± 0.5 dB (40MHz Channel), ± 1.5 dB (over 1GHz Band)										
Gain Variation	± 3 dB over -20 to +60°C										
Ka-band Input Connector	WR42 (UBR220), M3 tapped holes										
Input Return Loss	17.7 dB (VSWR 1.3:1)										
Image Rejection	40 dB										
Desensitisation Level	-30 dBm, for signals 29-31 GHz										
Maximum Input Level	0 dBm										
L-band Output Connector	SMA(f)										
Output Return Loss	14 dB (VSWR 1.5:1)										
Output Power at P1dB	+13 dBm										
Spurious, In-band	-60 dBc, at 0 dBm out										
Phase Noise	<table border="0"> <tr> <td>100 Hz</td> <td>-65 dBc/Hz</td> </tr> <tr> <td>1 kHz</td> <td>-75 dBc/Hz</td> </tr> <tr> <td>10 kHz</td> <td>-85 dBc/Hz</td> </tr> <tr> <td>100 kHz</td> <td>-95 dBc/Hz</td> </tr> <tr> <td>1 MHz</td> <td>-115 dBc/Hz</td> </tr> </table>	100 Hz	-65 dBc/Hz	1 kHz	-75 dBc/Hz	10 kHz	-85 dBc/Hz	100 kHz	-95 dBc/Hz	1 MHz	-115 dBc/Hz
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External Reference	10 MHz, via L-band Interface										
Reference Level	0 dBm ± 5 dB										
Ref Phase Noise (max)	<table border="0"> <tr> <td>100 Hz</td> <td>-135 dBm/Hz</td> </tr> <tr> <td>1 kHz</td> <td>-145 dBm/Hz</td> </tr> </table>	100 Hz	-135 dBm/Hz	1 kHz	-145 dBm/Hz						
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DC, Monitor & Control Connector	D38999/20 20 FA35S										
Input Voltage	+11 to +30V DC										
Power Consumption	5 W (max)										
Band Switching	H=Highband (20.2-21.2 GHz), L=Lowband (19.2-21.2 GHz)										
Summary Alarm	Open on Alarm, Open Collector 60V, 50mA max										
Operating Temperature	-20 to +60°C										
Storage Temperature	-55 to +85°C										
Sealing	IP65										
Dimensions	100mm (L) x 65mm (W) x 51mm (H)										
Weight	400g										