

01-284A X-BAND LNB DOWN CONVERTER



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SPECIFICATIONS	
RF Input Frequency	7.25 to 7.75 GHz
Noise Figure	0.8 dB with isolator (typical) Noise Temperature 60K (typical)
Input Connector	CPR 112 or CMR 112 with supplied adaptor
Input Return Loss	19 dB
Input Stability	Unconditionally stable for all possible input loads
IF Output Frequency	950 to 1450 MHz
Output Connector	N type Female, 50 ohm
Output Return Loss	12 dB
Output Stability	Unconditionally stable for all possible output loads
Conversion Gain	70 dB
Gain Flatness	3 dB p-p over full band 1 dB p-p over any 40 MHz segment
Gain Variation over Temp	± 3.0 dB maximum
1dB Compression Point	> 15 dBm
3rd Order Intercept	> 25 dBm
External Reference	10 MHz, 0 dBm ± 3dB, via IF connector
Desensitisation	-30dBm (7.9 - 8.4GHz)
Filtering	Includes embedded interstage Tx Filter > 50 dB rejection
Image Rejection	> 70dBc
Phase Noise	100 Hz 1 kHz 10 kHz 100 kHz 1 MHz -73 dBc/Hz -88 dBc/Hz -95 dBc/Hz -100 dBc/Hz -110 dBc/Hz
LO Leakage at Input	-45 dBm maximum
In Band Spurious	-70 dBm
DC Input	+11 to 30V DC, 400mA maximum, via IF connector
Operating Temp	-30 to +60°C
Relative Humidity	Up to 100% condensation and frost
Mass	900 grams 2 lb
Size	225mm x 86mm x 45mm (including isolator) - (8.9" x 3.4" x 1.8")