



K&L Microwave
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SATCOM Pre-Filter Amplifier

The SATCOM pre-filter amplifier provides 30 dB of transmit band rejection with minimum impact on LNA noise figure. This RF module combines a low-loss input filter with a low-noise amplifier, followed by a final clean-up filter. The entire module is housed in a small surface mount package measuring 4 x 1 x 0.5 inches. Microstrip input and output launches facilitate PCB attachment. Typical noise figure is 1.2 dB with 14 dB gain. The LNA is set for 14 dB gain, but can be set as high as 20 dB. The input filter minimizes transmit band co-site interference, reducing transmit third-order products in the SATCOM receive band. A final bandpass filter further reduces out-of-band interference for a clean receive channel signal. The entire cascade maintains less than 1 dB flatness across the full receive band. The module operates from a single 5 Volt power supply with a small 65 mA current draw.

Features:

- 30 dB Pre-filtering of TX Band (290 – 318 MHz)
- 1.4 dB Noise Figure
- Surface Mount Small Package (4 x 1 x 0.5 inches)
- Total Filtering over 70 dB
- 14 dB Gain
- High IP3 > +30 dBm

For further information and performance data, please contact K&L Microwave.

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