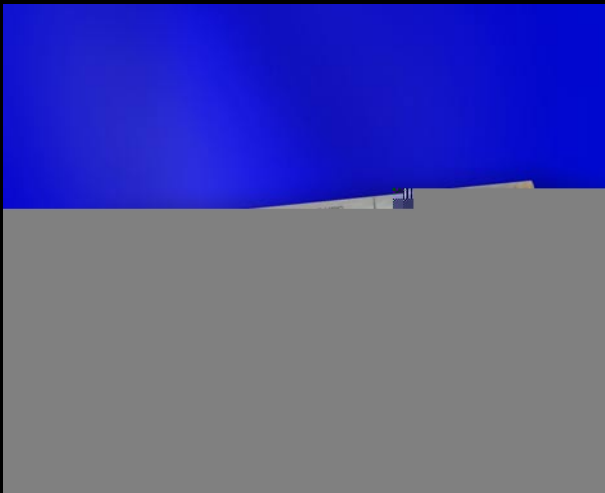


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FEATURES



Weak Signal Strength Environments

KEY BENEFITS

...the possibility of attenuating a signal that is marginal can be the addition of a G-LNA2 preamplifier. This also improves system performance at the receiver end of the antenna. The noise figure of the antenna is also improved, so inserting a G-LNA2 preamplifier with its typical 1.2 dB noise figure immediately improves the system noise figure.

High Interference Environments

Interference rejection is crucial in GPS timing receiver applications. GPS antennas are often installed on rooftops near other communications antennas that are radiating out-of-band energy at high levels. In some countries, mobile phones operate in frequency bands quite near the GPS band. Were such signals merely amplified by the preamplifier and passed on, they could saturate the GPS receiver. The G-LNA2 preamplifier incorporates high-linearity semiconductors and a surface acoustic wave (SAW) bandpass filter in a distributed gain architecture. With half of the gain ahead of the filter and half following it, very high out-of-band interference rejection is achieved. This distributed gain architecture achieves the sweet spot in terms of gain, noise figure, input compression levels and current drain.

Reliability

The G-LNA2 series preamplifiers contain Transient Voltage Suppression (TVS) devices to protect against damage due to static discharge or induced voltage surges from nearby lightning strikes.

