



Custom Mixer Products Capability

Active Mixers/Receivers

QAM

Product Description

QuinStar offers Active Mixers/Receivers based on a integrated combination of millimeter wave Low Noise Amplifiers (LNA) and state of the art planar mixers, and optional IF amplifiers. Figure 1 below shows the general configuration of this type of products. They are offered in highly integrated compact outlines and packages. These mixers are available over 18-110 GHz RF frequency range in

all standard waveguide bands as well as with coaxial interface connectors. These receiver modules are particularly suited for larger quantity production of communication systems, MMW radars and other low noise receivers. Products are customized to suit customer's specific needs. Please contact QuinStar with your specific requirements.

FIGURE 1

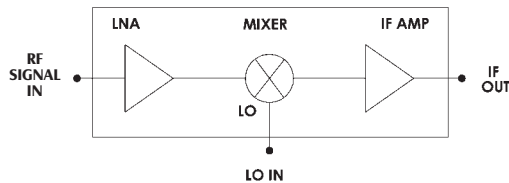


Figure 1: Typical Active Mixer/Receiver Architecture. The mixer can be configured as standard balanced, single sideband, or image reject type with either fundamental or sub-harmonic local oscillator (LO at half RF frequency)

Product Description

QuinStar provides a series of coaxial mixers operating over specific RF and LO ranges in the 8 to 65 GHz frequency range. These typically operate over very broad frequency ranges with reasonable performance in terms of conversion loss and IF bandwidth. A wide selection of RF, LO and IF bandwidths are available for these mixers.

Coaxial Mixers

QCM

Sub-harmonic local oscillator (LO) operation is also offered for these mixers. In addition to standard coaxial mixer products, QuinStar also offers products that are customized to meet application-specific performance requirements.