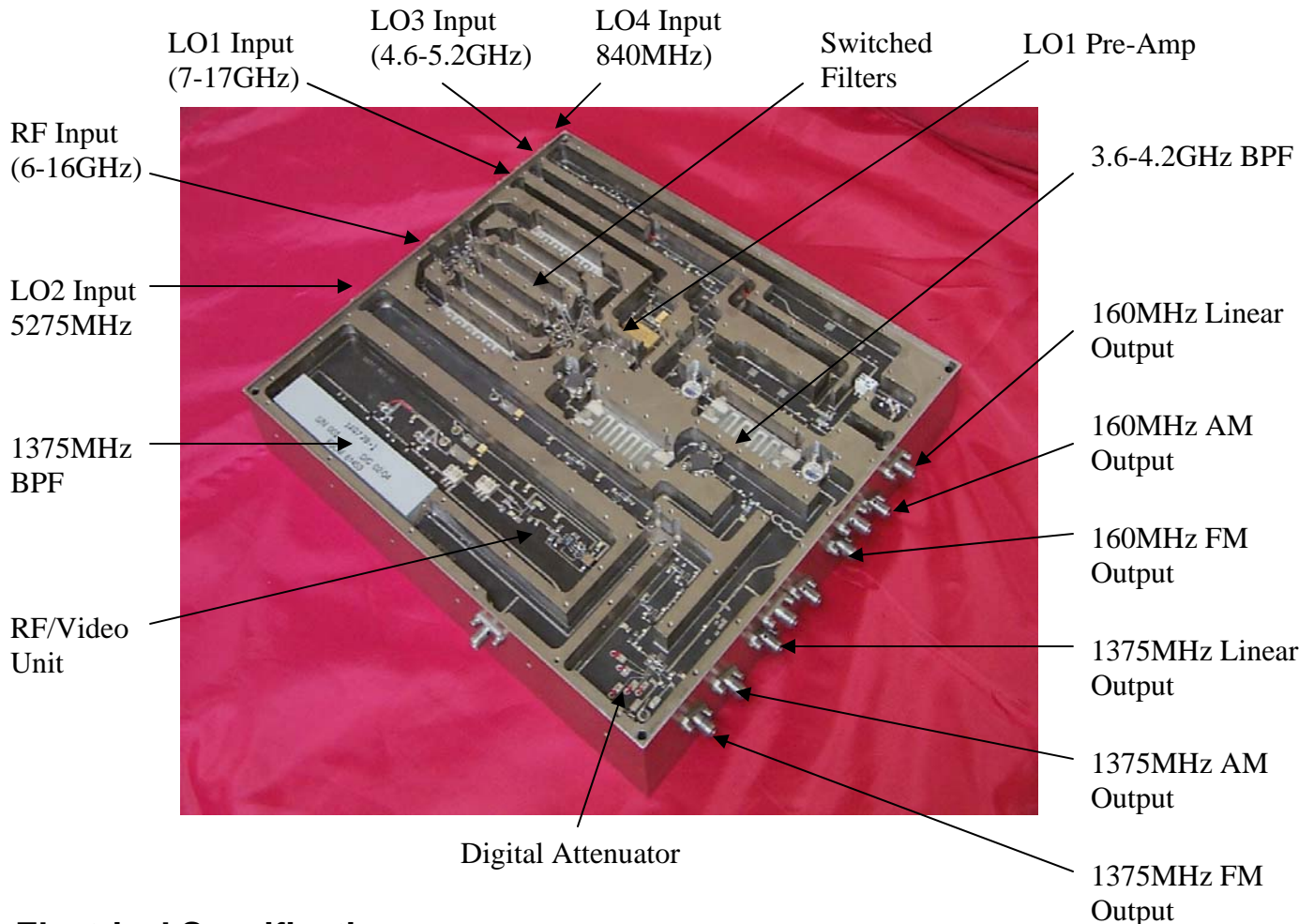


Jersey Microwave

6 - 18 GHz Receiver



Electrical Specifications

The 6-18 GHz Receiver represents an accomplishment in dense packaging using microstrip technology and standard PC board constructions. The design incorporates wide variety techniques to achieve high performance over wide range of specification requirements. The RF circuitry was designed and optimized with CAD to produce exceptional performance and efficiency. The different functions are separated into individual waveguide cut-off channel housings to provide the ability of controlling radiation and undesirable effects of enclosures. The design utilizes surface mount components throughout to reduce part count and achieve maximum repeatability, lowest production cost, and highest reliability. The view above shows the top RF section of 9.5" x 8.5" double bed housing which includes the input SP6T switch filter band of 6-18 GHz with each band covering a 2 GHz bandwidth and 200 MHz overlap in adjacent channel, a triple conversion for 1st IF (160 MHz), dual conversion for the 2nd IF (1375 MHz), and 2nd IF RF/Video unit with 70 dB logarithm and limiting amplifier. The different functions are separated into individual waveguide cut-off channel housings to provide the ability of controlling radiation and undesirable effects of enclosures. A second layer houses a SP3T switch to select the 2nd IF 160 MHz either with 10 MHz/ 20MHz/ 100MHz BW, 160 MHz SDLVA unit with 80dB logarithm and limiting amplifier. The specially designed techniques permitted the double bed housing thickness to be reduced to less than 1.25". **Jersey Microwave** specializes in optimizing designs to specific customer requirements.

Block Diagram

Note: Specifications are subject to change without notice

