

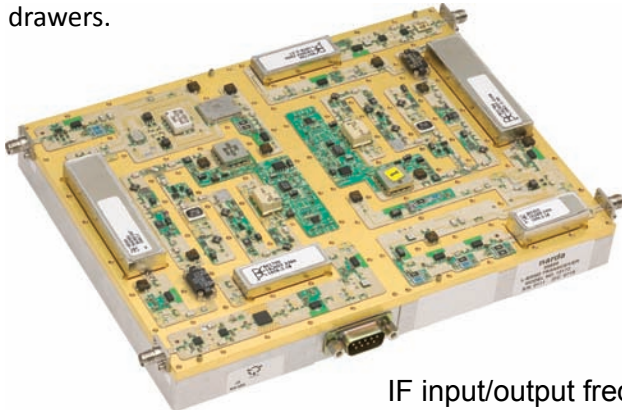
Product Specification Summary

70-MHz/L-band Transceiver For Legacy SATCOM Systems

The Model 15172 transceiver is a compact, cost-effective solution for interfacing systems that employ a 70-MHz IF to single-band, tri-band, or quad-band block converters in military satellite communications systems.

It upconverts or downconverts signals between the 70-MHz IF and the entire band from 950 MHz to 2 GHz, and the output frequency can be set at any point within the band in step sizes as small as 20 kHz and as broad as 1 MHz.

The phase noise performance of the Model 15172 exceeds MIL-STD-188-165A, and it measures only 6 x 8 x 1.5 in. and weighs 4 lb., which allows it to be easily integrated into rack drawers.



Model 15172

Key features/applications

- Designed for military and commercial satcom applications
- Interfaces systems that employ a 70-MHz IF to single-band, tri-band, or quad-band block converters
- IF bandwidth of 70 MHz +/-18 MHz
- L-band scalable from 950 MHz to 2000 MHz
- P1dB RF output power of more than +15 dB +/-0.15 dB
- Noise of upconverter and downconverter is 16 dB or less
- Accepts input signal from 52 to 88 MHz at -29 to 0 dBm
- Operating temperature range is -20° C to +70° C.

IF input/output frequency (MHz)	52 to 88
IF input return loss (dB)	At least 20 dB
RF output frequency (MHz)	950 to 2000 MHz
Tuning step size	20 Hz to 1 MHz
RF P1dB output power (dBm)	+15 dBm or more, +/-0.15 dB
Transfer gain (dB)	25 (upconverter), 30 (downconverter)
Noise figure (dB)	16 dB or less
Operating temperature range (°C)	-30 to +70
Size (in.)	6 x 8 x 1.5
Weight (lb.)	4

Please consult the factory for detailed product specifications.

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Cleared by DoD/OSR for public release under OSR case number 10-S-1085 on 4 May 2010