



Eyal Microwave Ltd.
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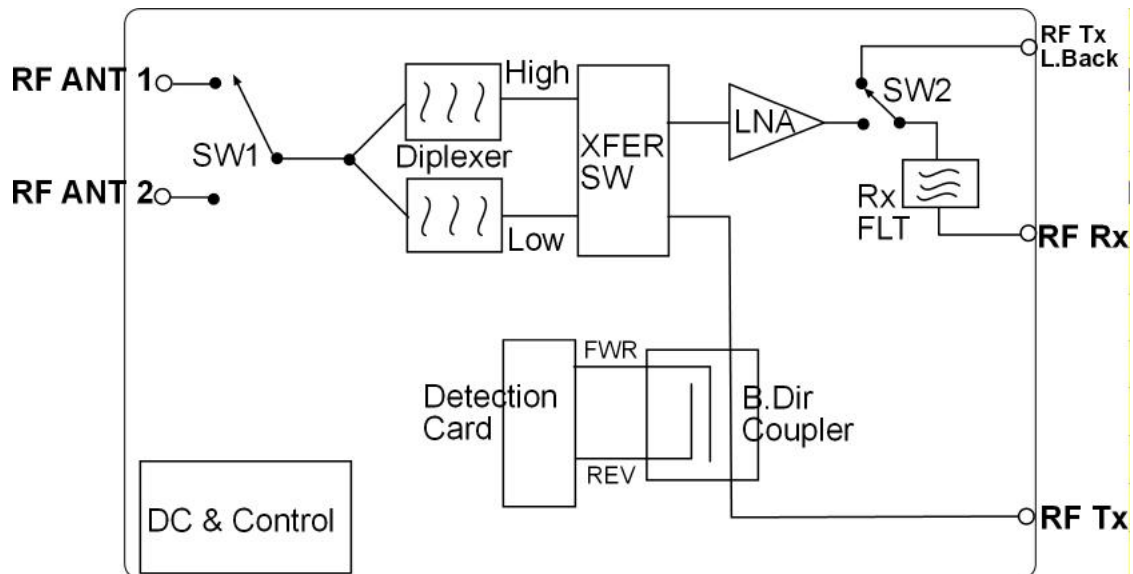
Specification for front end module

MODEL: FEM-2567

General Description:

Front-end module for short-range data link system in the C-Band RF. The design provides one-way or full duplex data and video communication between ground control station and airborne platform. The module is installed in both ends. The design integrates a command and control interface, communication interface, diplexer, transfer switch, power amplifier or LNA, and TRX switch.

Block Diagram





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Specification:

- 4 Band Frequency Range..... 5.2÷6.0 GHz
- Rx/Tx Rejection..... 70÷80 dB
- Impedance..... 50Ω
- VSWR..... 1.9:1
- TTL Control..... YES

Receiver specification:

- Noise figure..... 5.5dB max
- Input power..... 17dBm
- Gain..... 25dB ±4dB
- P1dB..... ±8dBm
- Spurious -75dBm
- Rx Filter rejection..... 10 dB min

Transmitter Specification:

- Power Handling..... 36÷47dBm
- Transmit Power..... 33÷44dBm
- Test input power..... -6 to 0 dBm
- SW2 Isolation..... 20dB min

Size (mm).....150 X 120 X 30

RF ConnectorsOSP

Environmental

- Operating temperature -35°C to +71°C ambient
- Storage temperature -45°C to +85°C
- Humidity..... 95% RH
- Fungus resistance MIL-STD-810E , method 508.4
- Salt/fog resistance..... MIL-STD-810E , method 509.3
- Altitude 30,000 Feet
- Vibration..... MIL-STD-810E , method 514.4
- Mechanical shock..... MIL-STD-810E , method 516.4

HASS/ESS

Per EMI procedure plan (random vibration; thermal shock; temperature cycling)