

GENERAL DESCRIPTION

The Front End Module is used in an airborne Common Data Terminal. It is designed to provide full duplex or one-way half duplex data and video communication between Ground Control Station (GCS) and manned or unmanned Air Vehicle (AV). The FEM consists of Transmit Channel, Receive Channel and Power Supply.



KEY FEATURES

- High Isolation between Rx & Tx channels
- RF Loopback capability
- FWD/REV Power indication
- Low Spurious
- Low Output Noise

APPLICATIONS

- Airborne Data Link

GENERAL SPECIFICATIONS

Frequency Range	50MHz BW at S-Band
Gain (RX)	25±2 db
Input Power (TX)	+2dbm nominal
Input Power No Damage	+17dbm max
Output Power	+42 dbm min.
Harmonics	-20 dbc
Spurious	-60 dbc
Noise Figure	4.5 db max.
VSWR in/out	2:1 max
TX/RX band rejection	100dbc min.

GENERAL SPECIFICATIONS

Power Requirements	+28V, 3.5 Amp.
Operating Temperature	-50°C ÷ +40°C
Non Operating Temp	-40°C ÷ +71°C
Dimensions	200 X 133 X 42 mm