

Tactical Communication Products: RT-138F Transceiver

PRODUCT DESCRIPTION



The RT-138F Transceiver utilizes a digital frequency synthesizer to provide FM communications on any authorized channel currently available in high band VHF from 138 MHz to 174 MHz. Using the C-1000 or C-5000 control unit, this Transceiver can be operated push-to-talk duplex with a transmit frequency at one end of the band and the receiver at the other. Changing channels is easy – up to 350 preset channels can be programmed to your assigned frequencies, or complete frequency agility is available in the control units. The Transceiver's small size and light weight is ideally suited to small or large fixed wing aircraft and helicopters. Every production unit is tested to assure that the severe operational requirements of rotary and fixed wing aircraft are met, including extreme high and low temperature and vibration testing.

Features

- 138 – 173.997 MHz
- 10 Watts FM TX Power
- 2.5 kHz Tuning
- 28 Volt Aircraft Power
- Aircraft Audio Interfaces
- 32 CTCSS Tones
- FAA PMA Certified

Options

- Guard Receiver
- Encryption Ready
- High Receiver Sensitivity

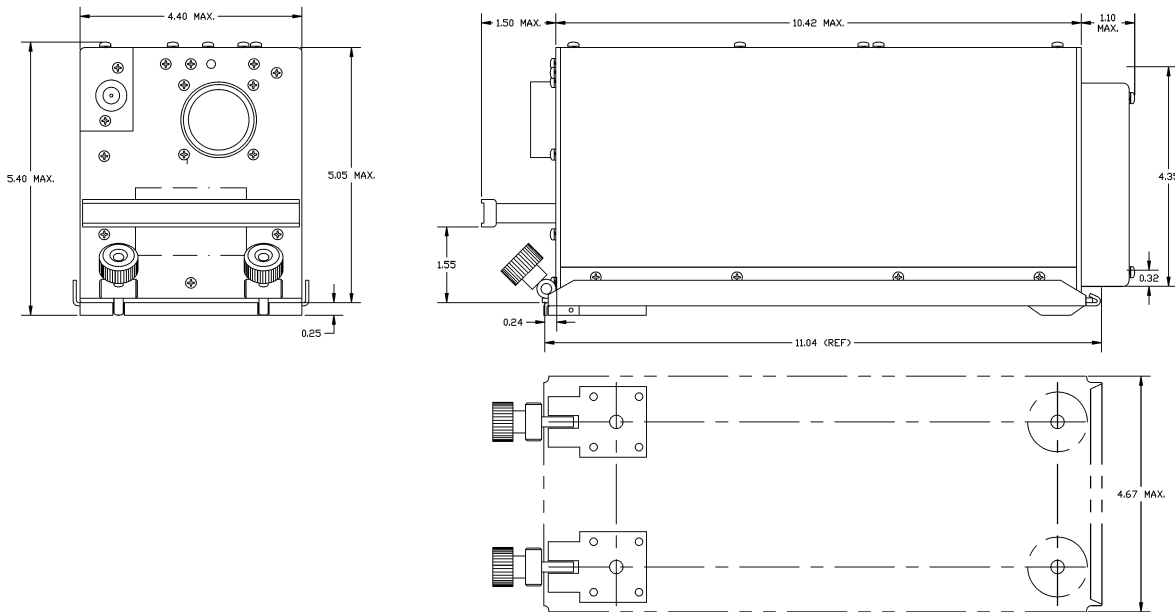
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Specifications

Voltage Requirements	27.5 Vdc, +/- 20%
Current Requirements	Receive: 1.0 Amp, Transmit: 3.1 Amp
Weight	7.5 to 8.3 lbs. (3.40 to 3.76 kg)
Temperature	-22°F to 140°F (-30°C to +60°C)
Altitude	51,000 feet (15,545 m)
Frequency Range	138.000 MHz – 173.9975 MHz
Channeling	25 or 30 kHz under Part 90
Tunability	2.5 kHz steps
Physical Dimensions	4.38 x 10.5 x 5 in. (111.252 x 266.7 x 127 mm)

Available Configurations

Configuration Variations	Description
400-014525-00	RT-138F-0 Transceiver, 138-174 MHz
400-014525-01	RT-138F-1 Transceiver, 138-174 MHz, w/Guard RCVR
400-014525-02	RT-138F-2 FM Transceiver, 138-174 MHz w/Guard RCVR & Guard Tones
400-014525-03	RT-138F-3 FM Transceiver, 138-174 MHz, HI Sensitivity
400-014525-50	RT-138F-50 FM Transceiver 138-174 MHz, Encryption Compatible
400-014525-51	RT-138F-51 FM Transceiver 138-174 MHz, Encryption Compatible, w/Guard RCVR
400-014525-52	RT-138F-52 FM Transceiver 138-174 MHz, Encryption Compatible, w/Guard RCVR & Guard Tones
400-014525-53	RT-138F-53 FM Transceiver 138-174 MHz, Encryption Compatible, HI Sensitivity.



**Figure 30. Flexcomm RT-138F Outline Drawing
Portions of Dwg No. 147-0119-000**