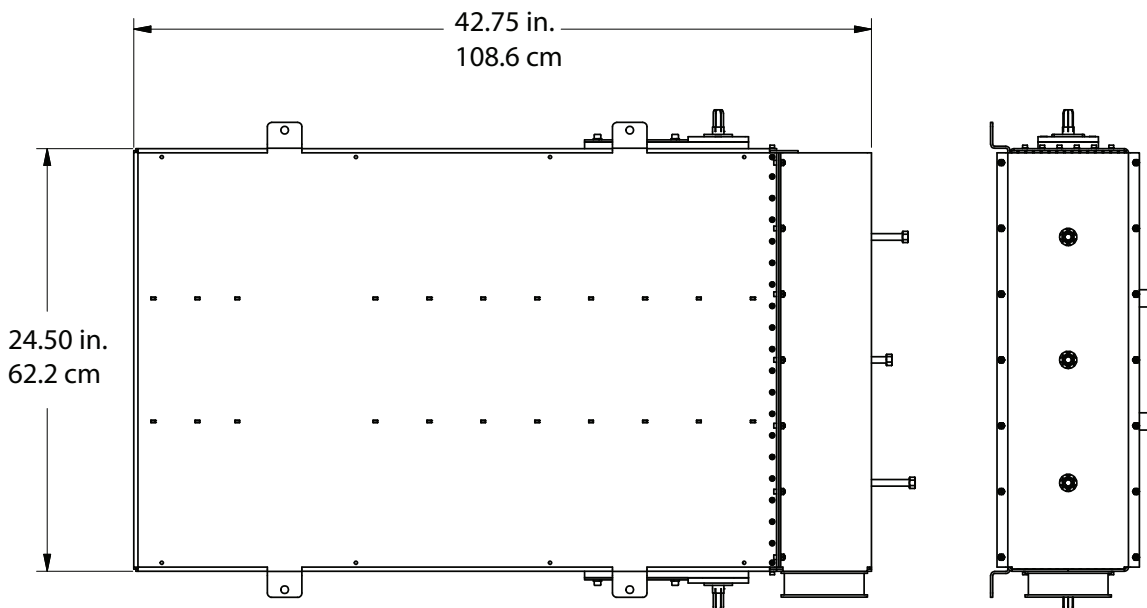
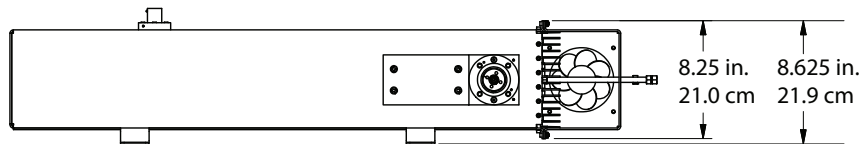


## 938 Series Low Power FM Band Pass Filter



Electronics Research, Inc. introduces a new low power FM band pass filter. The new filter uses a high-quality aluminum construction. The filter is easily mountable to a wall or ceiling. The 938 Series is available as a reflective filter or as a constant impedance filter. The 938 Series is designed with a compact profile while maintaining high performance. The temperature compensated design is perfect for any low power FM Analog or IBOC application. (Optional Floor Stand available, Type Number F1900-FL)

The Model 938A is convection cooled and is rated for 3.5 kW average power. The Model 938B is forced air-cooled and rated for 7 kW, average power.



938B Layout Drawing Three-Section FM Band Pass Filter

# 938 Series Low Power FM Band Pass Filter

## 938 Series FM Band Pass Filter Specifications

Model:	938
Filter Type:	FM Band Pass
Frequency:	All FM Broadcast Channels (88 to 108MHz)
Pass Band:	±200 kHz
Minimum Channel Spacing:	2.0 MHz
Poles:	Three (3) section
Insertion Loss:	0.35 dB
Group Delay Variation:	<100ns Overall Variation, Carrier ± 200kHz
Rejection:	-20 dB ± 1.0 MHz -40 dB ± 2.0 MHz
VSWR1:	1.1:1 ±200 kHz, maximum
Input and Output Connector:	1-5/8-inch EIA flange
Power Handling Capability:	3.5 kW with convection cooled 7 kW with forced air cooling

1) When terminated in 50-Ohm resistive load.

### Band Pass Filter Size and Weight:

#### Convection cooled model 938A:

Height:	38.88 in	988 mm
Width:	8.63 in	219 mm
Length:	24.75 in	629 mm
Weight:	71 lbm	32 kg

#### Forced air cooled model 938B:

Height:	42.75 in	1086 mm
Width:	8.63 in	219 mm
Length:	24.75 in	629 mm
Weight:	79 lbm	36 kg

AC power required for forced air cooling:	115 VAC	2 amps
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1) When terminated in 50-Ohm resistive load.

2) 2.0 MHz or from any adjacent port signal frequency.

Specifications presented are typical, total system performance may vary. In a continuing effort to improve products, ERI reserves the right to change specifications and features.

Input power rating is valid to 2,000 feet (610 meters) above mean sea level, contact ERI for rating at higher elevations.

# 938 Series Low Power FM Band Pass Filter

## FI900-FL Floor Stand for 935 and 938 FM Filters



Optional floor stand for 935 and 938 Series FM Band Pass Filters.

NOTE: Stand must be anchored to floor with customer supplied hardware

