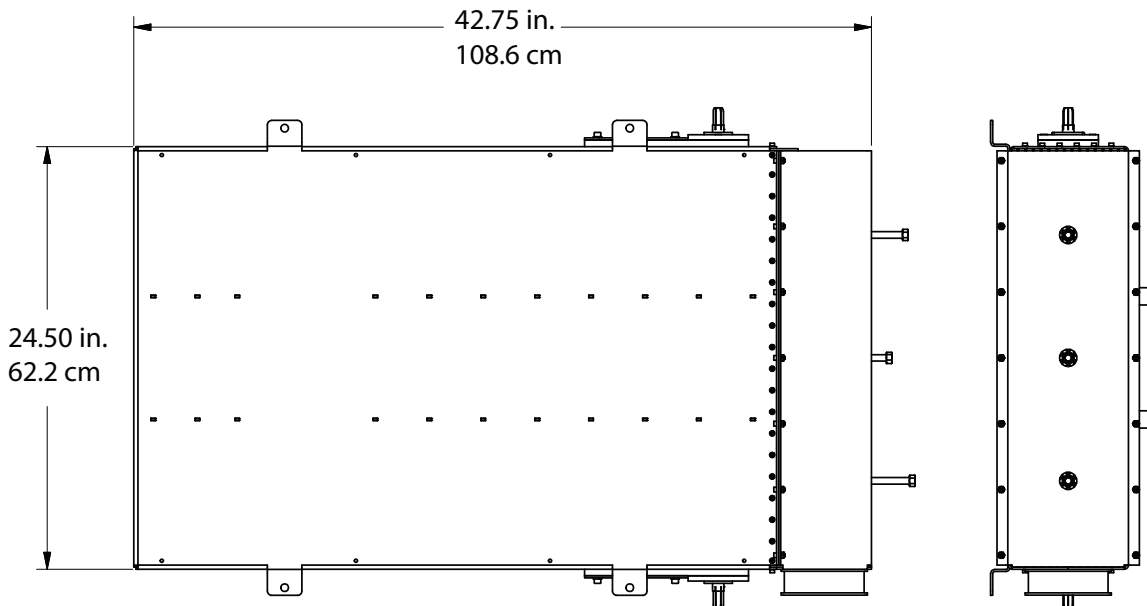
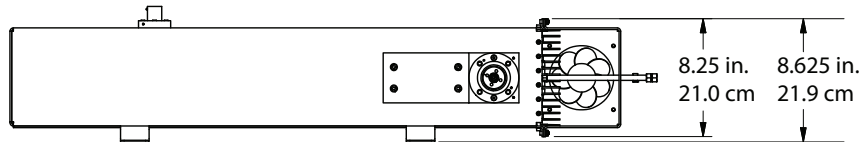


938 Series Low Power FM Band Pass Filter



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.

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

