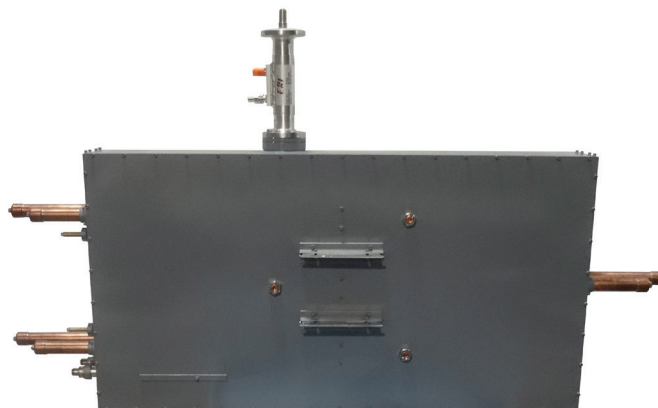


FI136 Integrated FM Channel Combiner

Features

- Factory tuned to customer's specified channels, yet can be easily field converted to any FM channel
- High stability temperature compensated cavities
- Ability to change frequency quickly and with a minimum of disassembly
- Compact filter

ERI's Model FI136 is a compact two channel FM combiner primarily intend for combining FM translators into a shared FM antenna. This product is a single wall mounted cabinet that combines any two FM channels, minimally separated by at least 1.6 MHz. The convection cooled FI136 is rated for up to 750 W per input and a combined output of 1.5 kW.



The combiner is temperature compensated and the filter set is constructed of lightweight Aluminum with copper resonators. Non-adjacent coupling increases rejection of transmitter out of band emissions. The combiner includes a single port directional coupler at the combined output and directional couplers for the combiner inputs are optionally available.

Specifications

Model:	FI136		
Input Connectors:	7-16 DIN female		
Output Connector:	Specify 7/8-inch or 1-5/8-inch EIA flanged output		
Power Handling Capability:	750 watts per input 1.5 kW combined output		
Combiner Size and Weight:	Length	29.6 inches	(752 mm)
	Width	24.0 inches	(610 mm)
	Height	5.1 inches	(130 mm)
	Weight	45 lbm	(20.4 kg)
Frequency²:	All FM Broadcast Channels (88 to 108MHz)		
VSWR¹:	<1.1:1, ±150 kHz, maximum		
Insertion Loss:	<0.60 dB		
Group Delay:	<75 nsec overall variation ±150 kHz		

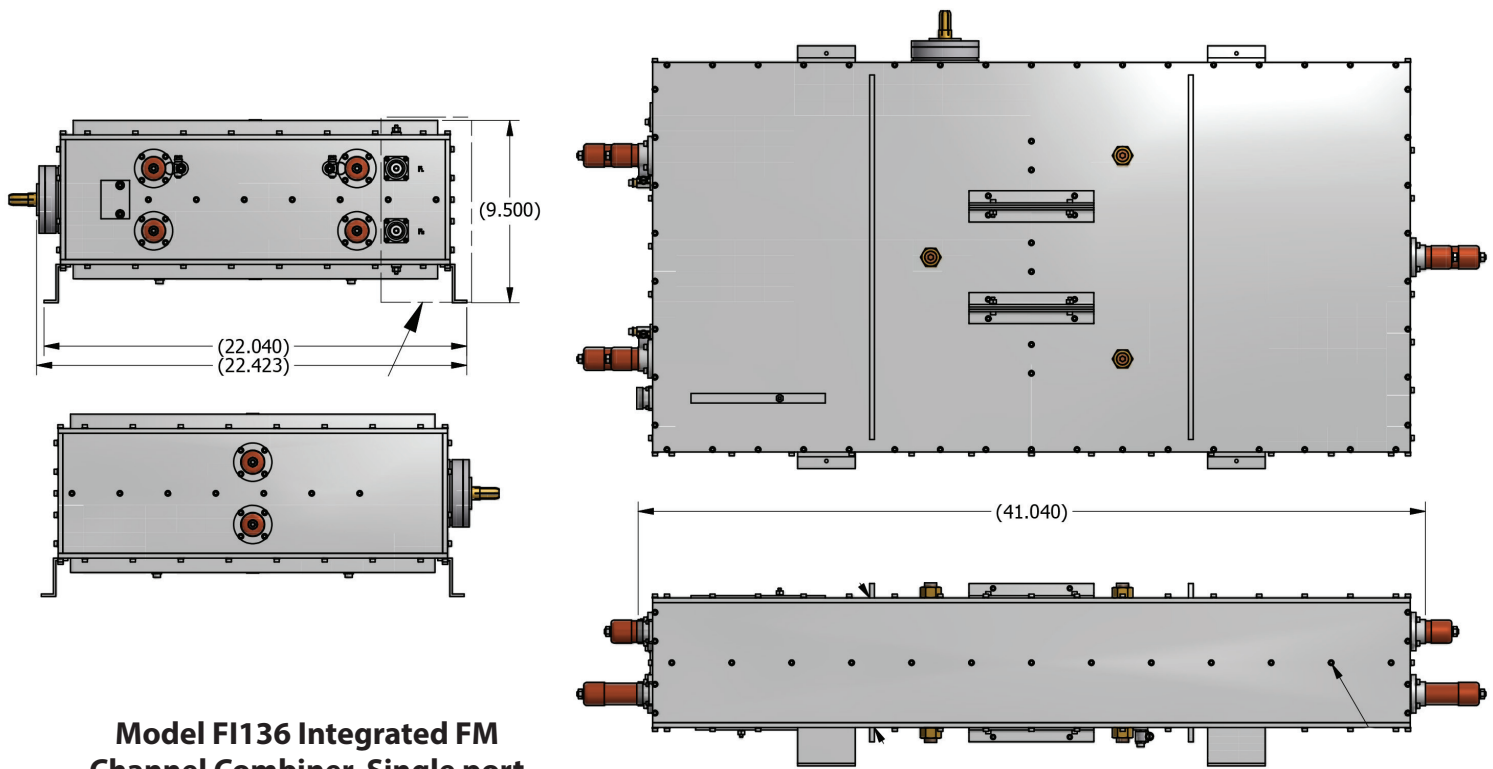
1) When terminated in 50-Ohm resistive load.

2) 1.6 MHz or more between frequencies.

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.

F1136 Integrated FM Channel Combiner

Layout Drawing



Model F1136 Integrated FM Channel Combiner. Single port directional coupler is included at system output and is not shown. Dimensions shown are inches.