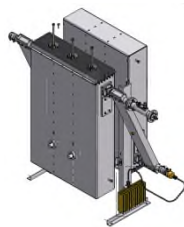


ERI Model 938-6 Constant Impedance FM Combiner Module



The ERI Model 938-6 is a low power constant impedance configuration utilizing two 938 Series, three section FM band pass filters with input and output 3 dB hybrids. The filters and hybrids use a high quality aluminum construction. The filter is floor mounted or can be suspended from the ceiling. The 938 Series is also available as a reflective filter. The 938-6 Series maintains a compact profile while maintaining high performance. The temperature compensated design is perfect for any low power FM Analog or IBOC application.

Model:	938-6	
Combiner Type:	Band Pass Constant Impedance	
VSWR:	1.1:1 \pm 200kHz, maximum	
Injected Port to Broad Port Isolation:	\geq -30 dB	
Injected Port to Injected Port Isolation:	\geq -55 dB, with two or more modules	
Output Connector:	1-5/8-inch or 3-1/8-inch EIA, 50 ohms	
Output Power Capability:	14 kW capability (limited by line size)	
Combiner Module Size and Weight:		
Convection cooled model:		
1-5/8-inch Output		
Height:	45 in	1148 mm
Width:	20 in	502 mm
Length:	36 in	917 mm
Weight:	110 lbm	50 kg
With forced air cooling:		
Height:	50 in	1275 mm
Width:	20 in	502 mm
Length:	36 in	917 mm
Weight:	118 lbm	54 kg
Convection cooled model:		
3-1/8-inch Output		
Height:	45 in	1148 mm
Width:	20 in	502 mm
Length:	40 in	1019 mm
Weight:	810 lbm	367 kg
With forced air cooling:		
Height:	50 in	1275 mm
Width:	20 in	502 mm
Length:	40 in	1019 mm
Weight:	818 lbm	371 kg
AC power required for forced air cooling:	115 VAC	3 amps

Multiple Station Broad Port:

Frequency:	All FM Broadcast Channels (88 to 108MHz)
Connector:	1-5/8-inch 50-Ohm EIA (flanged)
VSWR ¹ :	<1.1:1
Insertion Loss:	-0.05dB Typical
Group Delay:	<100 nsec overall variation \pm 200 kHz

Injected Station Port Performance:

Frequency ² :	All FM Broadcast Channels (88 to 108MHz)
Power Rating:	10 kW, with forced air cooling
Connector:	1-5/8-inch 50-Ohm EIA (flanged)
VSWR ¹ :	<1.10:1 at \pm 200 kHz
Insertion Loss:	<0.45 dB
Group Delay:	<100 nsec overall variation \pm 200 kHz

1) When terminated in 50-Ohm resistive load.

2) 2.0 MHz or more removed from any signal appearing at the broad port.

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.

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