



# FM CONSTANT IMPEDANCE COMBINER MODULE

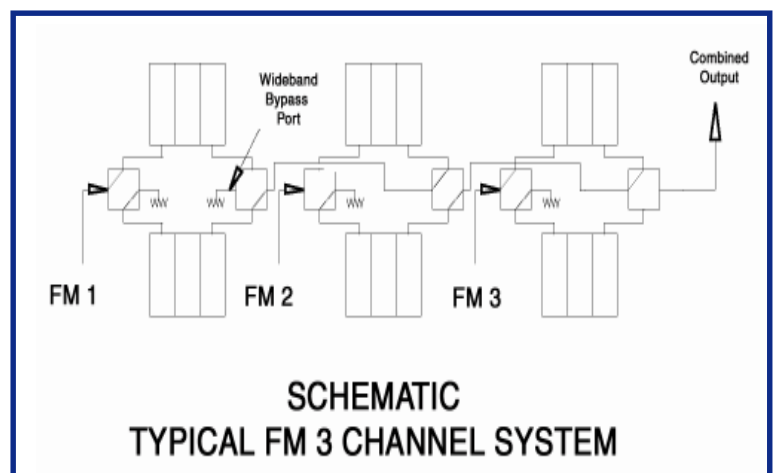
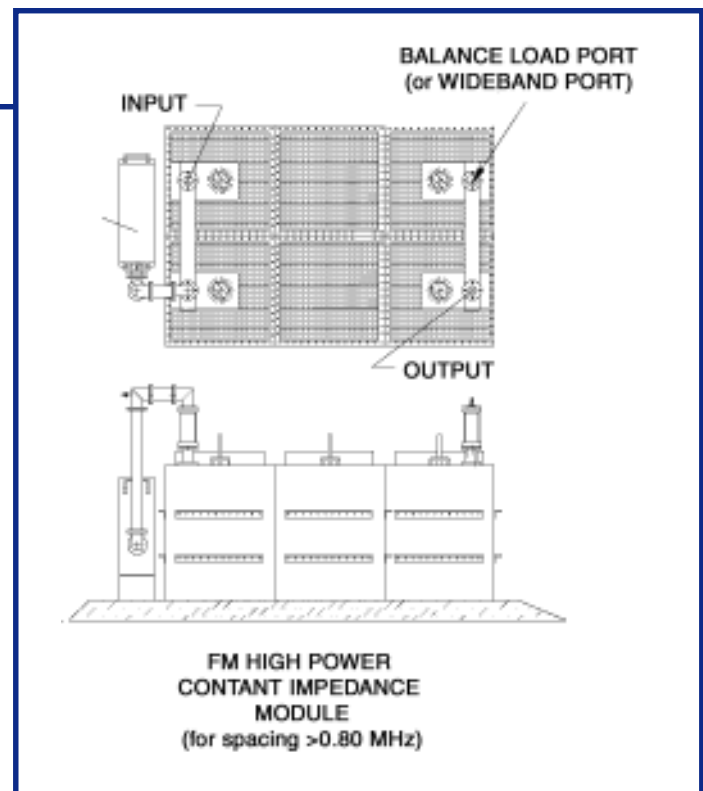
- Low Loss
- Low VSWR
- Constant Impedance Design
- High Isolation
- High Power Handling
- Stand Alone Filter

Micro Communications, Inc. offers a full range of FM channel combiners in a variety of constant impedance configurations.

The number of cavities in these combiners is determined by the spacing between the channels being combined. The cavities are constructed using temperature compensated materials to ensure good stability.

The combiner module consists of a number of precision bandpass cavities and coaxial hybrids that ensure excellent performance. In a multi-channel combining system one module is dedicated to each channel.

Optional equipment may include provisions such as patch panels or switches, input test load ports, custom framing systems, N+1 systems, etc.





**PERFORMANCE COMPARISON FOR FM COMBINERS**

TYPE NUMBER	UC/FM /LB -10	UC/FM/LB -10/3	UC/FM /LB -20	UC/FM/LB -20/3	UC/FM /LB -40	UC/FM/LB -40/3
<b>INPUT VSWR</b>	1.05	1.05				
<b>CHANNEL SPACING (Minimum)</b>	>1.6 MHz	> 0.8 MHz	>1.6 MHz	>0.8 MHz	> 1.6 MHz	> 0.8 MHz
<b>INSERTION LOSS (dB)</b>						
Narrow Input @ F <sub>Center</sub>	0.2	0.3	0.2	0.3	0.2	0.3
Wideband Input @F <sub>Center</sub>	0.1	0.1	0.1	0.1	0.1	0.1
<b>GROUP DELAY (ns)</b>						
Narrow Input @ F <sub>Center</sub>						
F <sub>C</sub> +/- 100 KHz	30	40	30	40	30	40
F <sub>C</sub> +/- 150 KHz	50	90	50	90	50	90
<b>OUT OF BAND REJECTION (dB)</b>						
F <sub>C</sub> +/- 150 KHz	0.25	0.35	0.25	0.35	0.25	0.35
F <sub>C</sub> +/- 0.80 MHz	8	20	8	20	8	20
F <sub>C</sub> +/- 1.6 MHz	20	36	20	36	20	36
F <sub>C</sub> +/- 2.4 MHz	26	48	26	48	26	48

	45222	45223	LB-10	LB-30	LB-40	LB-60
<b>MODEL</b>	<b>45222</b>	<b>45223</b>	<b>45224</b>	<b>45225</b>	<b>45225a</b>	<b>45226</b>
<b>CHANNEL SPACING</b>	> 1.6 MHz	> 1.6 MHz	> 1.6 MHz	> 1.6 MHz	> 1.6 MHz	> 1.6 MHz
<b>Input Power (kW)</b>						
Narrow	1	5	10	20	30	40
Wide	1	5	25	50	70	140
<b>Input Connector</b>	7/8	1 5/8	1 5/8	3 1/8	3 1/8	4 1/16
<b>Output Connector</b>	7/8	1 5/8	3 1/8	4 1/16	4 1/16	6 1/8
<b>Size (LxWxH)</b>						
in	25.6x25.6x57.1	27.6x27.6x57.9	52.8x42.1x57.9	52.8x42.1x61.0	52.8x42.1x65	66.9x57.5x65.4
cm	(65x65x145)	(70x70x147)	(134x107x147)	(134x107x155)	(134x107x165)	(170x146x163.5)
<b>Weight</b>						
lbs	375	419	507	639	662	1125
kg	(170)	(190)	(230)	(290)	(300)	(510)

	45232	45233	LB-10/3	LB-30/3	LB-40/3	LB-60/3
<b>MODEL</b>	<b>45232</b>	<b>45233</b>	<b>45234</b>	<b>45235</b>	<b>45235a</b>	<b>45236</b>
<b>CHANNEL SPACING</b>	> 0.8 MHz	> 0.8 MHz	> 0.8 MHz	> 0.8 MHz	> 0.8 MHz	> 0.8 MHz
<b>Input Power (kW)</b>						
Narrow	1	5	10	20	30	40
Wide	1	5	25	50	70	140
<b>Input Connector</b>	7/8	1 5/8	1 5/8	3 1/8	3 1/8	4 1/16
<b>Output Connector</b>	7/8	1 5/8	3 1/8	4 1/16	4 1/16	6 1/8
<b>Size (LxWxH)</b>						
in	25.6x39.4x57.1	27.6x41.3x57.9	52.8x61.8x57.9	52.8x61.8x61.0	52.8x61.8x65.0	66.9x85.0x64.4
cm	(65x100x145)	(70x105x147)	(134x157x147)	(134x157x155)	(134x157x165)	(170x216x163.5)
<b>Weight</b>						
lbs	507	551	684	772	805	1323
kg	(230)	(250)	(310)	(350)	(365)	(600)

**All specifications subject to change without notice.**

