

Data for 16-Inch Balanced Combiner Modules

Includes Models 2540-16-1/3, 2540-16-1/4, 2540-16-1/6, 2540-16-3/3, 2540-16-3/4, & 2540-16-3/6

Performance specifications

Type:	Resonant Cavity		
Size:	16"		
No. of cavities per filter:	2	3	4
Typical VSWR	at ± 100 kHz:	1.04:1	
	at ± 150 kHz:	1.04:1	
	at ± 200 kHz:	1.08:1	
Typical insertion loss:	-0.20 dB	-0.25 dB	-0.35 dB
Typical frequency response (deviation from center frequency)	at ± 100 kHz:	-0.01 dB	
	at ± 150 kHz:	-0.02 dB	
	at ± 200 kHz:	-0.05 dB	
Typical group delay (deviation from center frequency)	at ± 100 kHz:	30 nsec	
	at ± 150 kHz:	50 nsec	
	at ± 200 kHz:	150 nsec	
Typical bandwidth:	± 200 kHz		
Spur rejection, > 80 dB:	2.0 MHz	1.2 MHz	0.8 MHz



Power ratings:

		2540-16-1/3	2540-16-1/4	2540-16-1/6	2540-16-3/3	2540-16-3/4	2540-16-3/6
Maximum filter input power:		15 kW			20 kW		
Maximum power through output hybrid:	Average	40 kW	80 kW	160 kW	40 kW	80 kW	160 kW
	Peak	440 kW	700 kW	1500 kW	440 kW	700 kW	1500 kW

Inputs, outputs, and weight:

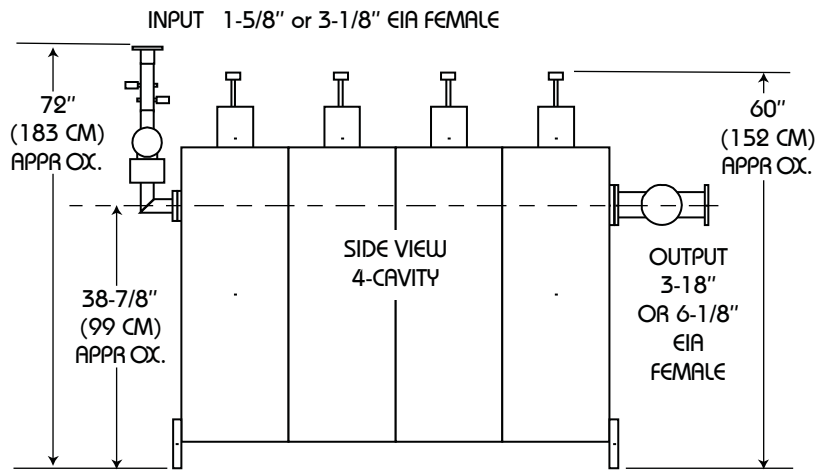
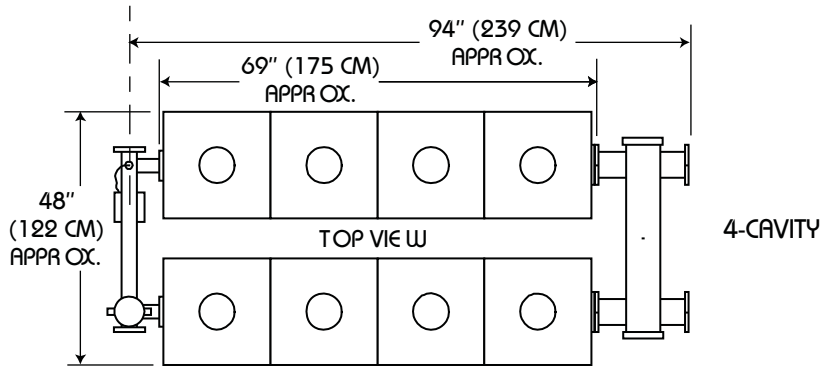
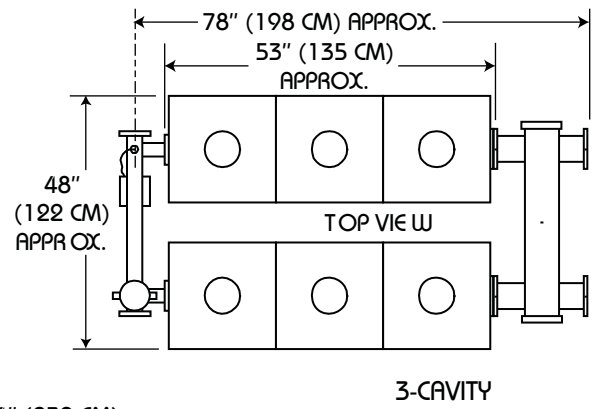
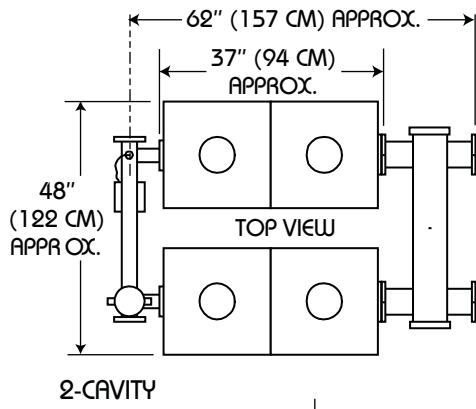
		2540-16-1/3	2540-16-1/4	2540-16-1/6	2540-16-3/3	2540-16-3/4	2540-16-3/6
Input connection:		1-5/8" EIA			3-1/8" EIA		
Input hybrid:		1-5/8" EIA			3-1/8" EIA		
Output connection:		3-1/8" EIA	4-1/16" flange or 6-1/8" EIA	6-1/8" EIA	3-1/8" EIA	4-1/16" flange or 6-1/8" EIA	6-1/8" EIA
Output hybrid:		3-1/8" EIA	4-1/16"	6-1/8" EIA	3-1/8" EIA	4-1/16"	6-1/8" EIA
Shipping weight,	4-cavity:	1100 lb (500 kg)	1150 lb (523 kg)	1200 lb (545 kg)	1200 lb (545 kg)	1250 lb (568 kg)	1300 lb (591 kg)
	3-cavity:	900 lb (409 kg)	950 lb (432 kg)	1000 lb (455 kg)	1000 lb (455 kg)	1050 lb (477 kg)	1100 lb (500 kg)
	2-cavity:	725 lb (330 kg)	775 lb (352 kg)	825 lb (375 kg)	825 lb (375 kg)	875 lb (398 kg)	925 lb (420 kg)

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A Division of Howell Laboratories, Inc., P. O. Box 389, Bridgton, Maine 04009 USA
 (207) 647-3327 1-888-SHIVELY Fax: (207)647-8273
 An Employee-Owned Company

www.shively.com
 sales@shively.com
 Certified to ISO-9001

Dimensions:



NOTE

Module includes a 1-5/8" or 3-1/8" precision input directional coupler as standard equipment.