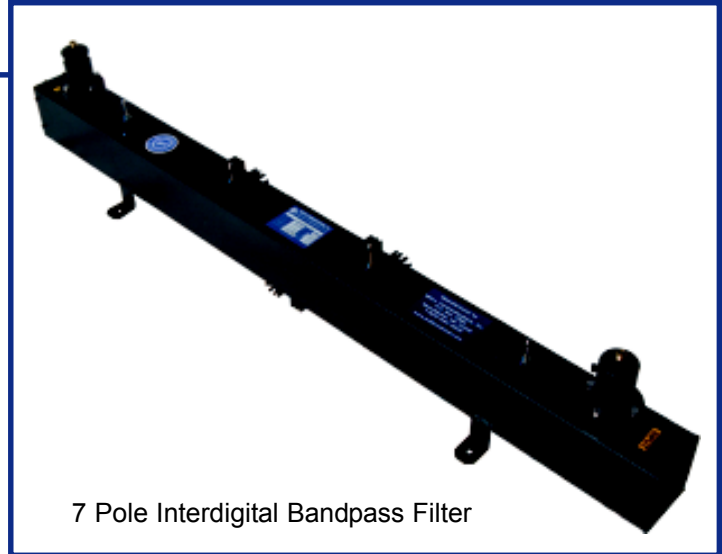




INTERDIGITAL BANDPASS FILTERS

- Low Cost
- Low Loss
- Compact Design
- Low VSWR
- Thermally Stable
- High Power Handling

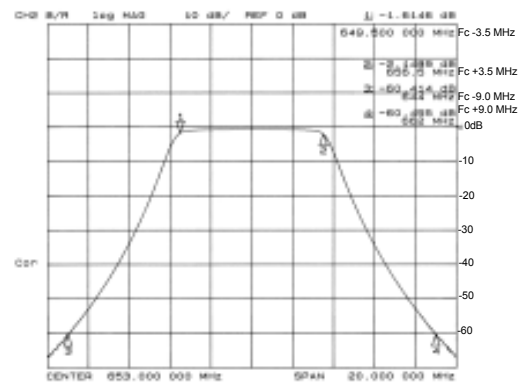


7 Pole Interdigital Bandpass Filter

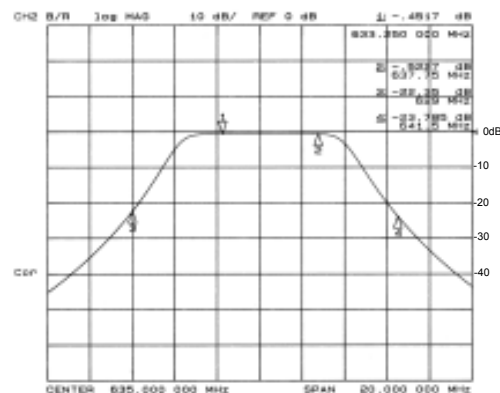
MCI's new "Interdigital" bandpass filters feature a unique design. Quarter-wave rods are housed inside a rectangular structure. Performance is based on the rod spacing and resonant length. The design results in a small rugged unit, which is easily integrated into a compact package.

The filters are used to add additional rejection outside the band of interest. More importantly they can be incorporated into a channel combiner arrangement.

MCI's "Interdigital" filters are available for VHF and UHF. Consult factory for other applications. Please specify out-of-band rejection requirements when ordering.



7 POLE FILTER RESPONSE

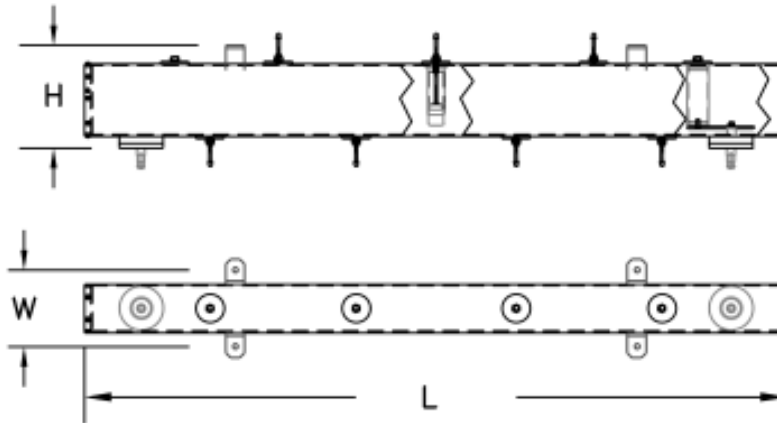


5 POLE FILTER RESPONSE



SPECIFICATIONS 5 – Pole Filter
VSWR: 1.15 over Pass Band
Frequency: Specify Channel
Insertion Loss: 0.5 dB (typ) 0.75 (max)

SPECIFICATIONS 7 – Pole Filter
VSWR: 1.15 over Pass Band
Frequency: Specify Channel
Insertion Loss: 0.8 dB (typ) 1.0 (max)



UHF 7 POLE ILLUSTRATED

	VHF 5 POLE		UHF 5 POLE	UHF 7 POLE
FREQUENCY (MHz)	54-88	174-216	470-860	470-860
CHANNEL RANGE	2-6	7-13	14-69	14-69
MODEL	42104	42164	42174	42184
POWER (Peak)	23 kW	14 kW	7 kW	7 kW
SIZE	70x54x6	50x17x6	57x6x6	76x6x6
WEIGHT	150	40	30	40
	(mm)	(1780x430x150)	(1450x152x152)	(1930x152x152)
	(kg)	(68)	(18)	(18)
CONNECTORS EIA	3 1/8"	3 1/8"	3 1/8"	3 1/8"
MODEL	42103	42163	42173	42183
POWER (Peak)	7.5 kW	5 kW	2.5 kW	2.5 kW
SIZE	54x32x6	32x17x6	44x6x4	60x6x4
WEIGHT	40	30	20	35
	(mm)	(1370x813x152)	(813x432x152)	(1118x152x102)
	(kg)	(18)	(14)	(9)
CONNECTORS EIA	1 5/8"	1 5/8"	1 5/8"	1 5/8"
MODEL	42102	42162	42172	42182
POWER (Peak)	4.5 kW	3 kW	1.5 kW	1.5 kW
SIZE	54x32x6	32x17x6	40x6x4	60x6x4
WEIGHT	40	30	20	35
	(mm)	(1370x813x152)	(813x432x152)	(1015x152x102)
	(kg)	(18)	(14)	(9)
CONNECTORS EIA	7/8"	7/8"	7/8"	7/8"
MODEL			42171	72181
POWER (Peak)			500 W	500 W
SIZE			40x6x4	60x6x4
WEIGHT			20	35
			(mm)	(1016x152x102)
			(kg)	(1524x152x102)
CONNECTORS EIA			N	N

All specifications are subject to change without notice.



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