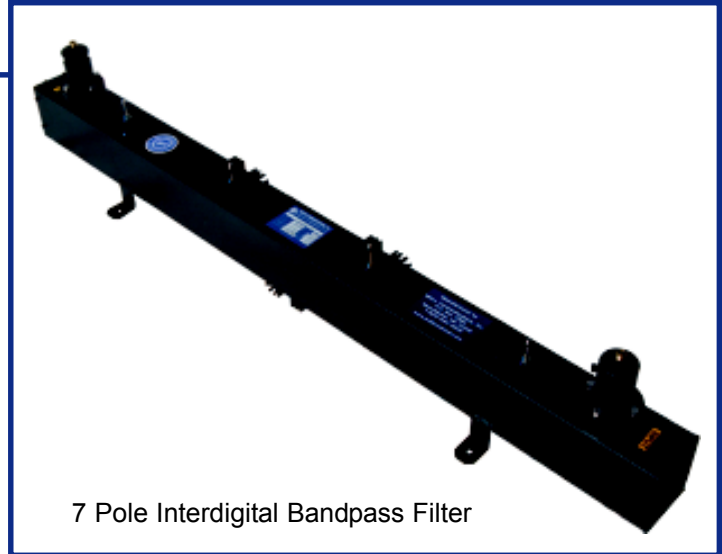




Micro Communications, Inc.

# INTERDIGITAL BANDPASS FILTERS

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

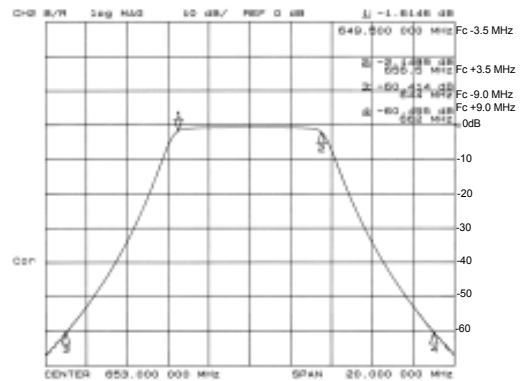


7 Pole Interdigital Bandpass Filter

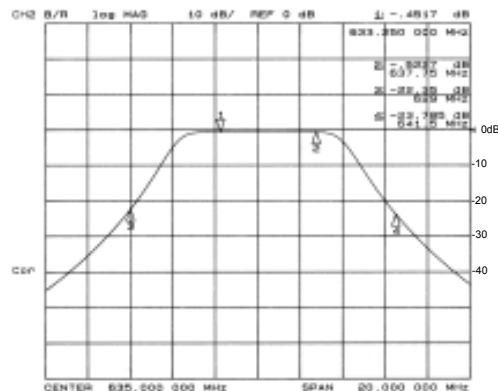
MCI's new "Interdigital" bandpass filters feature a unique design. Quarter-wave rods are housed inside a rectangular structure. Performance is based on the rod spacing and resonant length. The design results in a small rugged unit, which is easily integrated into a compact package.

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

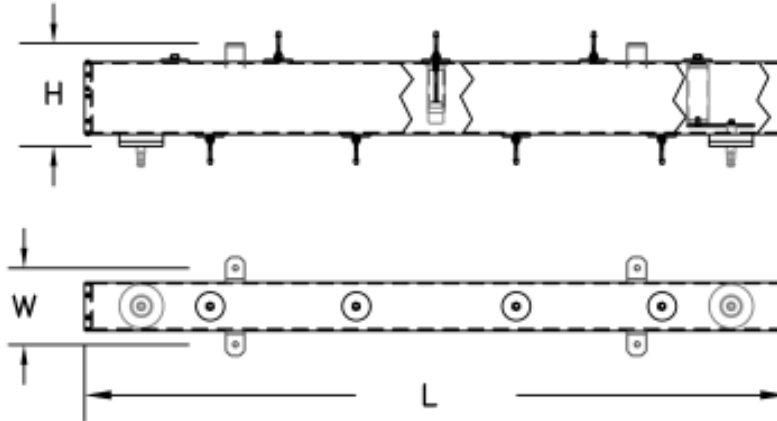


Micro Communications, Inc.

**SERIES 42100  
INTERDIGITAL BANDPASS FILTERS**

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

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



**UHF 7 POLE ILLUSTRATED**

	<b>VHF 5 POLE</b>		<b>UHF 5 POLE</b>	<b>UHF 7 POLE</b>
<b>FREQUENCY (MHz)</b>	54-88	174-216	470-860	470-860
<b>CHANNEL RANGE</b>	2-6	7-13	14-69	14-69
<b>MODEL</b>	42104	42164	42174	42184
<b>POWER (Peak)</b>	23 kW	14 kW	7 kW	7 kW
<b>SIZE</b>	in 70x54x6	in 50x17x6	in 57x6x6	in 76x6x6
<b>WEIGHT</b>	lbs 150	lbs 40	lbs 30	lbs 40
	(kg) (68)	(kg) (18)	(kg) (14)	(kg) (18)
<b>CONNECTORS EIA</b>	3 1/8"	3 1/8"	3 1/8"	3 1/8"
<b>MODEL</b>	42103	42163	42173	42183
<b>POWER (Peak)</b>	7.5 kW	5 kW	2.5 kW	2.5 kW
<b>SIZE</b>	in 54x32x6	in 32x17x6	in 44x6x4	in 60x6x4
<b>WEIGHT</b>	lbs 40	lbs 30	lbs 20	lbs 35
	(kg) (18)	(kg) (14)	(kg) (9)	(kg) (16)
<b>CONNECTORS EIA</b>	1 5/8"	1 5/8"	1 5/8"	1 5/8"
<b>MODEL</b>	42102	42162	42172	42182
<b>POWER (Peak)</b>	4.5 kW	3 kW	1.5 kW	1.5 kW
<b>SIZE</b>	in 54x32x6	in 32x17x6	in 40x6x4	in 60x6x4
<b>WEIGHT</b>	lbs 40	lbs 30	lbs 20	lbs 35
	(kg) (18)	(kg) (14)	(kg) (9)	(kg) (16)
<b>CONNECTORS EIA</b>	7/8"	7/8"	7/8"	7/8"
<b>MODEL</b>			42171	72181
<b>POWER (Peak)</b>			500 W	500 W
<b>SIZE</b>			in 40x6x4	in 60x6x4
<b>WEIGHT</b>			lbs 20	lbs 35
			(kg) (9)	(kg) (16)
<b>CONNECTORS EIA</b>			N	N

All specifications are subject to change without notice.



Micro Communications, Inc.

**Micro Communications, Inc - A Mega Industries Company**

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