



Micro Communications, Inc.

Microwave A MICROWAVE TECHNIQUES COMPANY

SERIES 44000

# HARMONIC COAX FILTERS

- Low VSWR
- High Rejection
- High Efficiency



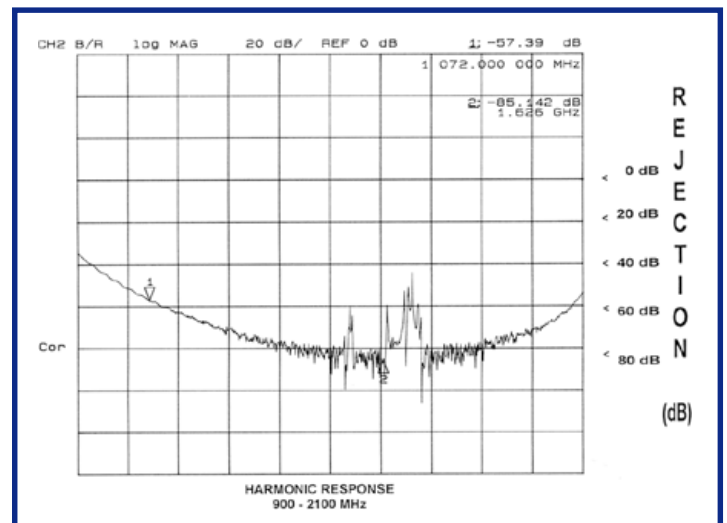
## SPECIFICATION

Frequency:	Specify Channel
Attenuation:	0.1 dB Low Pass 0.1 dB Notch Type
2 <sup>nd</sup> Harmonic:	40 dB Low Pass 40 dB Notch Type
3 <sup>rd</sup> Harmonic:	35 dB Low Pass 40 dB Notch Type
VSWR:	1.06:1

The MCI Harmonic Filter is designed to suppress the second and third harmonics generated by the transmitter.

Achieving values greater than 40dB at these frequencies is standard practice. Each filter is individually tested and optimized. A broadband design makes the low pass filter an ideal choice for multi-channel applications. Two models cover the full UHF band for 3 1/8 and 4 1/16 coax.

A wide range of power levels is available in various EIA sizes. For 6 1/8 EIA applications contact factory.



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	Lo V	Lo V	Hi V	FM	UHF
<b>FREQUENCY (MHz)</b>	54-72	76-88	174-216	88-108	470-860

**HARMONIC FILTER LOW PASS**

MODEL		44015	44015	44115	44195	44105
POWER		140kW	140kW	100kW	100kW	70kW
LENGTH	in (mm)	80 (2032)	76 (1930)	48 (1219)	80 (2032)	36 (914)
WEIGHT	lbs (kg)	140 (64)	130 (59)	70 (32)	130 (59)	60 (27)
CONNECTORS EIA		6 1/8	6 1/8	6 1/8	6 1/8	6 1/8
MODEL		44014	44014	44112	44112	44102
POWER		60kW	60kW	55kW	55kW	55kW
LENGTH	in (mm)	120 (3048)	110 (2794)	48 (1219)	98 (2489.2)	36 (914)
WEIGHT	lbs (kg)	120 (54.4)	120 (54.4)	50 (23)	110 (49.9)	50 (23)
CONNECTORS EIA		4 1/16	4 1/16	4 1/16	4 1/16	4 1/16
MODEL		44013	44013	44114	44114	44104
POWER		50kW	50kW	35kW	35kW	30kW
LENGTH	in (mm)	120 (3048)	110 (2794)	48 (1219)	90 (2286)	36 (914)
WEIGHT	lbs (kg)	90 (40.8)	90 (40.8)	40 (18)	60 (27.2)	30 (14)
CONNECTORS EIA		3 1/8	3 1/8	3 1/8	3 1/8	3 1/8
MODEL		44012	44012	44113	44113	44103
POWER		25kW	25kW	5kW	5kW	5kW
LENGTH	in (mm)	110 (2794)	100 (2540)	48 (1219)	80 (2032)	36 (914)
WEIGHT	lbs (kg)	60 (27.2)	60 (27.2)	20 (9)	40 (18.1)	20 (7)
CONNECTORS EIA		1 5/8	1 5/8	1 5/8	1 5/8	1 5/8

**HARMONIC FILTER NOTCH TYPE**

MODEL		44235	44225	44215	44245	
POWER		100kW	100kW	60kW	50kW	
LENGTH	in (mm)	60 (1524)	40 (1016)	24 (609)	30 (762)	
WEIGHT	lbs (kg)	60 (27)	60 (27)	50 (23)	50 (23)	
CONNECTORS EIA		6 1/8	6 1/8	6 1/8	6 1/8	
MODEL		44232	44222	44212	44242	
POWER		100kW	100kW	45kW	60kW	
LENGTH	in (mm)	60 (1524)	40 (1016)	24 (609)	30 (762)	
WEIGHT	lbs (kg)	50 (23)	50 (23)	40 (18)	40 (18)	
CONNECTORS EIA		4 1/16	4 1/16	4 1/16	4 1/16	
MODEL		44234	44224	44214	44244	
POWER		80kW	80kW	35kW	30kW	
LENGTH	in (mm)	60 (1524)	40 (1016)	20 (508)	30 (762)	
WEIGHT	lbs (kg)	30 (14)	30 (14)	25 (11)	25 (11)	
CONNECTORS EIA		3 1/8	3 1/8	3 1/8	3 1/8	
MODEL		44233	44223	44213	44243	
POWER		20kW	20kW	5kW	8kW	
LENGTH	in (mm)	60 (1524)	40 (1016)	20 (508)	30 (762)	
WEIGHT	lbs (kg)	20 (9)	20 (9)	15 (7)	15 (7)	
CONNECTORS EIA		1 5/8	1 5/8	1 5/8	1 5/8	

All specifications are subject to change without notice.