



HARMONIC ABSORPTIVE FILTERS

C70A SERIES

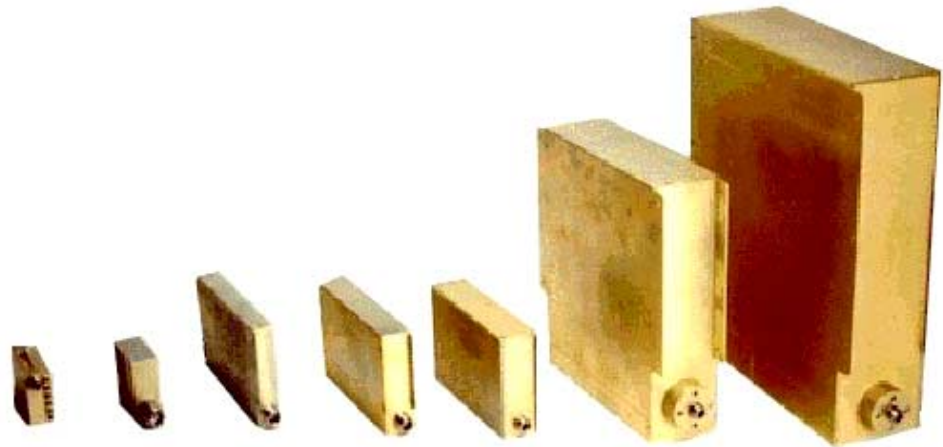
DATA SHEET
No. B152
1 of 2

- HIGH POWER
- LOW LOSS
- LOW PASS AND STOP BAND REFLECTION

DESCRIPTION

MEC's 70A series of Harmonic

Absorptive filters are low pass filters, which absorb the rejected power instead of reflecting it back to the transmitter, thereby protecting TWT's from harmonic and other harmful reflections. They feature high power handling capability, low pass band loss, low VSWR over the pass and stop bands, sharp cutoff skirt and high attenuation.



MEC offers a complete line of Harmonic Absorptive filters, which cover full TWTA bands of either 1-18 GHz or 2-18 GHz. Refer to the tables below for suggested model groupings to cover these bands. The lower part of the band is covered with coaxial models (C70A Series) and the upper part of the band is usually in waveguide (70A Series for rectangular waveguide and R70A Series for double ridge waveguide).

OPTION 1

BAND	PASS BAND FREQUENCY (GHz)	STOP BAND FREQUENCY (GHz)	INTERFACE
1	1.00-1.78	2.00-3.56	Type N
2	1.78-3.20	3.56-6.40	Type N
3	3.20-5.70	6.40-11.40	Type N
4	5.70-10.10	11.40-20.20	WRD475
5	10.10-18.00	20.20-36.00	WRD750

OPTION 2

BAND	PASS BAND FREQUENCY (GHz)	STOP BAND FREQUENCY (GHz)	INTERFACE
1	1.00-1.65	2.00-3.30	Type N
2	1.65-2.70	3.30-5.40	Type N
3	2.70-4.47	5.40-8.94	Type N
4	4.47-7.50	8.94-15.20	Type N
5	7.50-11.60	15.00-23.20	WRD750
6	11.60-18.00	23.20-36.00	WRD750

ORDERING INFORMATION

Refer to the following pages for model number listings and specifications.

Data subject to change without notice



MICROWAVE ENGINEERING CORPORATION

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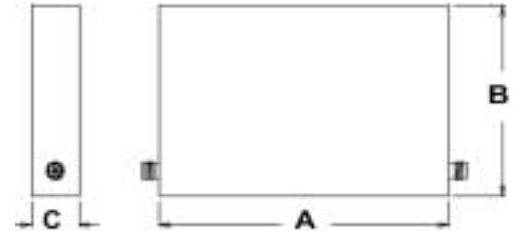
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HARMONIC ABSORPTIVE FILTERS COAXIAL, C70A SERIES

DATA SHEET
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The table below is a representative sample of MEC's available designs of Coax Harmonic Absorptive Filters. Contact MEC with your specific requirements. Our engineering staff will be glad to discuss your needs.



MODEL NUMBER	PASS BAND			STOP BAND			A (Inch)	B (Inch)	C (Inch)
	CUTOFF FREQUENCY (GHz)	PASS BAND I. L. Max (dB)	PASS BAND VSWR Max	FREQUENCY (GHz)	ATTENUATION Min (dB)	VSWR Max			
C70A-337	0.4-0.9	1.0	1.5:1	1.0-1.776	50	3.0:1	22.1	21.3	5.2
C70-247	1.0-1.5	0.6	1.5:1	3-4.5 & 4.51-10	60 & 30	2.5:1	14.0	4.7	1.67
C70A-409	1.0-1.5	0.3	1.2:1	2.2-4.0	25	2.5:1	6.0	6.0	4.0
C70A-413	1.0-1.6	0.3	1.5:1	1.9-4.0	25	2.0:1	115	13.6	3.6
C70A-429	1.0-1.6	0.2	1.13:1	2-3.2 & 3.21-18	25	2:1 & 3:1	9.5	11.5	3.6
C70A-435	1.0-1.7	0.3	1.17:1	2.0-7.0	30	2.0:1	9.5	11.5	3.6
C70A-463	1.0-2.0	0.3	1.3:1	2.35-8.0	40	2.0:1	9.5	11.5	3.1
C70A-436	1.5-2.0	0.2	1.2:1	2.5-8.0	30	2.0:1	9.5	11.5	3.1
C70A-471	1.6-2.5	0.3	1.3:1	3.2-10.0	35	2.0:1	10.0	6.8	2.3
C70A-428	1.6-2.7	0.4	1.35:1	3.2-8.4	35	2.5:1	10.0	6.8	2.3
C70A-447	1.0-2.8	0.4	1.5:1	3.2-6.0	25	2.0:1	10.0	9.0	2.5
C70A-417	2.8-3.2	0.5	1.4:1	5.6-6.4	40	2.5:1	7.2	4.7	1.8
C70A-437	2.0-3.5	0.3	1.2:1	3.9-9.0	30	2.0:1	7.2	4.7	1.9
C70A-452	3.0-3.5	0.2	1.5:1	6.0-7.0	30	2.0:1	7.2	4.7	1.7
C70A-411	2.2-3.6	0.3	1.3:1	4.3-7.5	25	2.5:1	5.0	5.0	3.0
C70A-433	2.0-4.0	0.35	1.2:1	4.5-10.0	30	1.5:1	7.2	4.7	1.7
C70A-423	2.0-4.0	0.4	1.5:1	4.6-12.0	30	2.5:1	7.2	4.7	1.6
C70A-438	3.0-4.0	0.3	1.2:1	4.5-10.0	30	2.0:1	7.2	4.7	1.7
C70A-414	2.0-4.8	0.4	1.5:1	5.6-8.0	25	2.0:1	5.6	4.7	1.4
C70A-482	2.8-4.8	0.25	1.3:1	5.6-10.0	33	1.6:1	7.2	4.7	1.4
C70A-472	3.0-4.8	0.3	1.3:1	6.0-18.0	38	2.5:1	7.2	4.7	1.4
C70A-332	3.5-6.0	0.3	1.5:1	7-12	50	1.5:1	8.2	4.7	1.2
C70A-439	4.0-7.0	0.2	1.2:1	7.7-14.0	35	2.0:1	7.2	4.7	1.1
C70A-434	4.8-7.5	0.25	1.35:1	9.6-18	35	2.0:1	7.2	4.7	1.0
C70A-424	4.0-8.0	0.4	1.5:1	9.4-16.0	30	2.0:1	7.2	3.7	0.8
C70A-440	6.0-8.0	0.3	1.2:1	8.8-14.0	30	2.0:1	7.2	4.7	1.0
C70A-474	6.4-8.0	0.35	1.2:1	12.4-18	45	2.0:1	7.2	4.7	1.0
C70A-449	6.5-11.0	0.75	1.5:1	13.0-22.0	45	2.5:1	8.4	3.9	0.8
C70A-129	8.0-12.4	0.45	1.35:1	16-24.8	35	2.5:1	3.5	2.5	1.2

ORDERING INFORMATION

Choose from models listed above, or specify pass band and stop band frequency, IL, VSWR, attenuation, power connectors and any other requirements.

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