

MONOLITHIC CRYSTAL MODEL: FILTERS

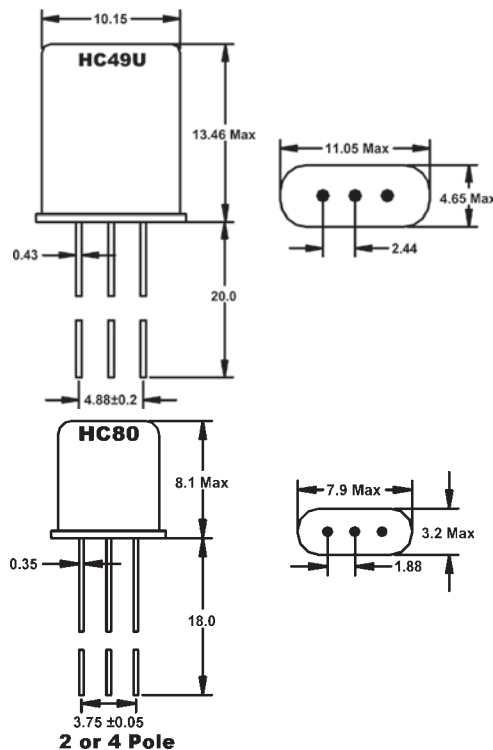
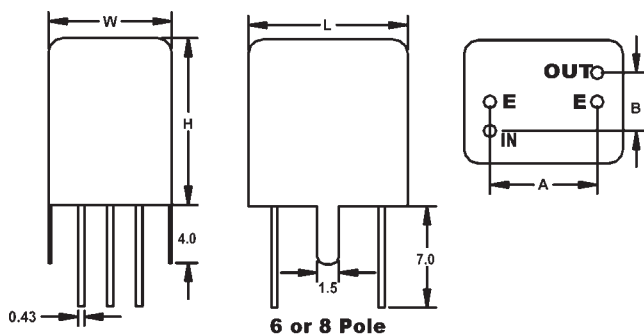
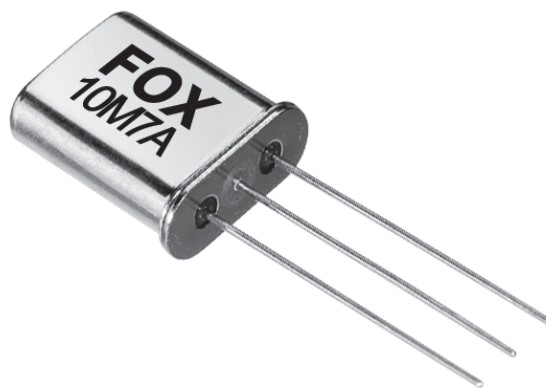
Fox filters offer excellent features such as sharp cut off characteristics, low loss and high stability over a wide temperature range which are superior to LC Filters and Ceramic Filters.

The basic building block for all custom built Fox filters is the two-pole monolithic filter available in standard package as shown. Two-pole monolithic filters are cascaded to produce four, six and eight pole filter responses with the addition of coupling capacitors between two-pole sections. Standard Fox filters are available with center frequencies from 10.7 MHz to 90 MHz, and from two to eight poles.

For custom made filters, please specify the following:

- Holder Size
- Insertion Loss
- Ripple
- Nominal Frequency
- Attenuation
- Terminating Impedance
- Pass Bandwidth
- Spurious Response
- Operating Temp. Range

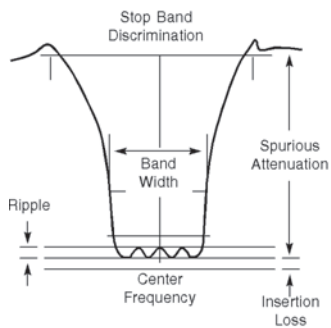
Note: 45F Series 45,000 MHz fundamental is a special filter designed for mobile radio and cellular phone applications.



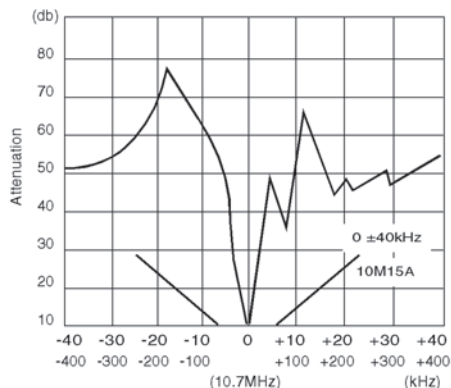
• MULTI-POLE PACKAGE DIMENSIONS

CASE TYPE	L	W	H	A	B
C	0.590 (15.0)	0.472 (12.0)	0.591 (15.0)	0.354 (9.0)	0.197 (5.0)
D	0.728 (18.5)	0.472 (12.0)	0.591 (15.0)	0.531 (13.5)	0.197 (5.0)
CN	0.433 (11.0)	0.335 (8.5)	0.453 (11.5)	0.291 (7.4)	0.157 (4.0)

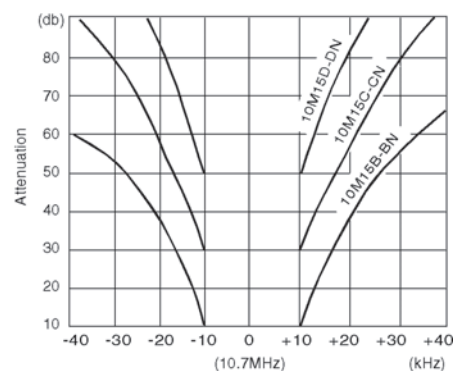
FILTER PARAMETERS



10.7MHz TWO POLE CHARACTERISTICS



MULTI-POLE CHARACTERISTICS



• STANDARD MONOLITHIC CRYSTAL FILTERS

Type	Frequency MHz	Pole	Case	Pass Band dB kHz	Stop Band dB kHz	Stop Band dB kHz	Ripple Max dB	Loss Max dB	Attenuation Guaranteed to ±kHz	Terminating Impedance ohms/pF
10M7A	10.700	2	49U	3 ±3.75	20 ±18		0.5	1.5	35 +300 ~ +1000 40 -200 ~ -1000	1.8K/6.0
10M7B	10.700	4	49Ux2	3 ±3.75	40 ±14		1.0	2.5	50 +300 ~ +1000 70 -200 ~ -1000	1.8K/5.0 Cc = 11pF
10M7C	10.700	6	C	3 ±3.75	45 ±8.75	65 ±12.5	2.0	3.5	65 ±12.5 ~ ±300	1.8K/5.0
10M7D	10.700	8	D	3 ±3.75	65 ±8.75	90 ±12.5	2.0	4.0	90 ±12.5 ~ ±300	1.8K/5.0
10M12A	10.700	2	49U	3 ±6.0	20 ±25		0.5	1.5	35 +300 ~ +1000 40 -200 ~ -1000	3.3K/1.5
10M12B	10.700	4	49Ux2	3 ±6.0	40 ±20		1.0	2.5	50 +300 ~ +1000 70 -200 ~ -1000	3.3K/1.5 Cc = 6pF
10M12C	10.700	6	C	3 ±6.0	50 ±14	65 ±20	2.0	3.0	65 ±20 ~ ±300	3.3K/2.0
10M12D	10.700	8	D	6 ±6.0	65 ±14	90 ±20	2.0	3.5	90 ±20 ~ ±300	3.3K/2.0
10M15A	10.700	2	49U	3 ±7.5	18 ±25		0.5	1.5	35 +300 ~ +1000 40 -200 ~ -1000	3.0K/2.0
10M15B	10.700	4	49Ux2	3 ±7.5	40 ±25		1.0	2.5	50 +300 ~ +1000 70 -200 ~ -1000	3.0K/2.0 Cc = 5pF
10M15C	10.700	6	C	3 ±7.5	50 ±17.5	65 ±25	2.0	3.0	65 ±25 ~ ±300	3.3K/1.5
10M15D	10.700	8	D	6 ±7.5	65 ±17.5	90 ±25	2.0	3.5	90 ±25 ~ ±300	3.3K/1.5
10M20A	10.700	2	49U	3 ±10.0	18 ±34		0.5	1.5	35 +300 ~ +1000 40 -200 ~ -1000	3.9K/1.0
10M20B	10.700	4	49Ux2	3 ±10.0	40 ±34		1.0	2.5	50 +300 ~ +1000 70 -200 ~ -1000	3.9K/1.0 Cc = 3pF
16M15A	16.900	2	49U	3 ±7.5	18 ±25		0.5	1.5	35 +300 ~ +1000 40 -200 ~ -1000	1.8K/2.0
16M15B	16.900	4	49Ux2	3 ±7.5	40 ±25		1.0	2.5	50 +300 ~ +1000 70 -200 ~ -1000	1.8K/1.5 Cc = 7.5pF
16M15C	16.900	6	C	3 ±7.5	45 ±17.5	65 ±25	2.0	3.0	65 ±25 ~ ±300	1.8K/1.5
16M15D	16.900	8	D	3 ±7.5	65 ±17.5	90 ±25	2.0	3.5	90 ±25 ~ ±300	1.8K/1.5
21M7A	21.400	2	HC80	3 ±3.75	20 ±18		0.5	1.5	35 +350 ~ +1000 50 -200 ~ -1000	850/6.0
21M7B	21.400	4	HC80x2	3 ±3.75	40 ±14		1.0	2.5	65 +350 ~ +1000 80 -200 ~ -1000	850/5.0 Cc = 16pF
21M7C	21.400	6	CN	3 ±3.75	45 ±8.75	65 ±12.5	2.0	3.0	65 ±12.5 ~ ±300	850/5.0
21M7D	21.400	8	CN	3 ±3.75	65 ±9.0	90 ±12.5	2.0	4.0	90 ±12.5 ~ ±300	850/5.0
21M12A	21.400	2	HC80	3 ±6.0	20 ±25		0.5	1.5	35 +350 ~ +1000 50 -200 ~ -1000	1.2K/3.0
21M12B	21.400	4	HC80x2	3 ±6.0	40 ±20		1.0	2.5	65 +350 ~ +1000 80 -200 ~ -1000	1.2K/2.5 Cc = 10.5pF
21M12C	21.400	6	CN	3 ±6.0	45 ±14	65 ±20	2.0	2.5	65 ±20 ~ ±300	1.2K/2.5
21M12D	21.400	8	CN	3 ±6.0	65 ±14	90 ±20	2.0	3.0	90 ±20 ~ ±300	1.2K/2.5
21M15A	21.400	2	HC80	3 ±7.5	18 ±25		0.5	1.5	35 +350 ~ +1000 50 -200 ~ -1000	1.5K/2.0
21M15B	21.400	4	HC80x2	3 ±7.5	40 ±25		1.0	2.5	65 +350 ~ +1000 80 -200 ~ -1000	1.5K/2.0 Cc = 8pF
21M15C	21.400	6	CN	3 ±7.5	45 ±17.5	65 ±25	2.0	2.5	65 ±25 ~ ±300	1.5K/2.0
21M15D	21.400	8	CN	3 ±7.5	65 ±17.5	90 ±25	2.0	3.0	90 ±25 ~ ±300	1.5K/2.0
21M20A	21.400	2	HC80	3 ±10.0	18 ±34		0.5	2.0	35 +350 ~ +1000 50 -200 ~ -1000	1.8K/1.5
21M20B	21.400	4	HC80x2	3 ±10.0	40 ±34		1.0	2.5	65 +350 ~ +1000 80 -200 ~ -1000	1.8K/1.5 Cc = 5pF
21M30A	21.400	2	HC80	3 ±15.0	15 ±45		0.5	1.5	35 +350 ~ +1000 50 -300 ~ -1000	3.0K/0.5
21M30B	21.400	4	HC80x2	3 ±15.0	40 ±50		1.0	2.5	65 +350 ~ +1000 80 -300 ~ -1000	3.0K/-0.5 Cc = 3pF
45F15A	45.000	2	HC80	3 ±7.5	15 ±25		1.0	2.0	35 +500 ~ +1000 40 -200 ~ -1000	650/4.5
45F15B	45.000	4	HC80x2	3 ±7.5	30 ±25		1.0	3.0	70 +500 ~ +1000 -200 ~ -1000	650/1.5 Cc = 9pF
45F20A	45.000	2	HC80	3 ±10.0	15 ±34		1.0	2.0	35 +500 ~ +1000 40 -200 ~ -1000	700/2.5
45F20B	45.000	4	HC80x2	3 ±10.0	40 ±48		1.0	3.0	70 +500 ~ +1000 -200 ~ -1000	700/1.5 Cc = 6.5pF
45F30A	45.000	2	HC80	3 ±15.0	15 ±50		1.0	2.0	35 +500 ~ +1000 -300 ~ -1000	800/1.5
45F30B	45.000	4	HC80x2	3 ±15.0	40 ±60		1.0	3.0	70 +500 ~ +1000 -300 ~ -1000	800/1.0 Cc = 5pF
45M15A	45.000	2	HC80	3 ±7.5	18 ±28		1.0	2.0	35 +500 ~ +1000 -200 ~ -1000	4K/-1.0
45M15B	45.000	4	HC80x2	3 ±7.5	40 ±30		1.0	3.0	70 +500 ~ +1000 -200 ~ -1000	4K/-1.0 Cc = -1pF
45M20A	45.000	2	HC80	3 ±10.0	15 ±30		1.0	2.0	35 +500 ~ +1000 -200 ~ -1000	5K/-1.0
45M20B	45.000	4	HC80x2	3 ±10.0	35 ±40		1.0	3.0	70 +500 ~ +1000 -200 ~ -1000	5K/-1.0 Cc = -1.5pF
70M15A	70.000	2	HC80	3 ±7.5	15 ±30		1.0	2.0	35 +500 ~ +1000 -200 ~ -1000	2.0K/-1.0
70M15B	70.000	4	HC80x2	3 ±7.5	25 ±25		1.0	3.0	70 +500 ~ +1000 -200 ~ -1000	2.0K/-1.0 Cc = -1pF
70M20A	70.000	2	HC80	3 ±10.0	15 ±40		1.0	2.0	35 +500 ~ +1000 -200 ~ -1000	2.5K/-1.0
70M20B	70.000	4	HC80x2	3 ±10.0	35 ±40		1.0	3.0	70 +500 ~ +1000 -200 ~ -1000	2.5K/-1.0 Cc = -1pF

All specifications subject to change without notice. Rev. 6/1/04 Note: Operating Temperature -20°C to +70°C

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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