

**CF**

[ 7.0×5.0×1.4 mm ]

**Surface Mount**

4 poles in one package

**Fund.**

**21.4MHz**

**45.0MHz**

**200MHz**

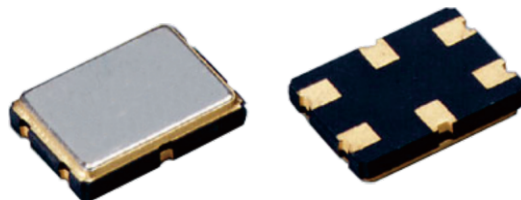
**2 poles**

**3 poles**

**4 poles**

## Features

- Small size Surface mount package crystal filter(MCF), size with 7.0×5.0×1.3 mm
- 2/3/4 pole package crystal filter
- Frequency range 21MHz~200MHz
- Customized service available
- Excellent guaranteed attenuation
- Excellent shock and vibration resistance
- Comply with RoHS, Pb Free green certification
- Applications: Radio communication, Car intercom, Base station, Smart grid, Communication, etc.



## Standard Specifications

Model	No. of poles	Center Frequency (MHz)	Pass Bandwidth		Stop Bandwidth		Ripple	Insertion Loss	Guaranteed Attenuation	Terminating Impedance
			dB	KHz (min.)	dB	KHz (max.)	dB (max.)	dB (max.)	dB (max.)	ohms // pF
CF21M30A	2	21.4	3	±15	10	±35	1.5	3.0	20	3000 // 0.5
CF21M40A	2	21.4	3	±20	15	±60	1.0	2.0	60	3200 // -1.0
CF21M12A	2	21.4	3	±6	20	±25	0.5	1.5	35	1200 // 3.0
CF21M30B	4	21.45	3	±15	35	±50	1.0	3.0	35	3300 // -0.3
CF27M24A	2	27	3	±12	10	±25	1.0	3.0	18	1000 // 2.7
CF29M16A	2	29.25	3	±8	18	±30	1.0	3.0	45	700 // 0
CF30M40A	2	30	3	±20	20	±125	1.0	3.0	30	3800 // 0.2
CF32M8.0A	2	32.768	3	±4	40	±60	1.0	2.0	40	670 // 6.0
CF35M22A	4	35.25	3	±11	30	±37	1.0	4.0	50	1300 // 1.5
CF35M22B	4	35.25	3	±11	30	±37	1.0	4.0	50	1650 // 0.4
CF35M40C	4	35.25	3	±20	30	±55	1.0	4.0	50	3300 // -0.2
CF35M40D	4	35.25	3	±20	30	±55	1.0	4.0	50	3100 // -0.2
CF45M7.5A	4	45	3	±3.75	30	±12.5	1.0	4.0	70	550 // 2.5
CF45M15A	4	45	3	±7.5	25	±22	1.0	4.0	80	800 // 2.0
CF45M15B	4	45	3	±7.5	25	±22	1.0	4.0	80	800 // 2.0
CF45M16A	4	45	3	±8	16	±30	1.0	3.0	45	250 // 0
CF45M20A	4	45	3	±10	25	±25	1.0	3.0	25	1000 // 1.6
CF45M30A	4	45	3	±15	30	±50	1.0	3.0	50	1500 // 0.7
CF45M30B	4	45	3	±15	20	±30	1.0	3.0	35	800 // 1.7
CF45M70A	2	45	3	±35	20	±125	1.0	3.0	30	2400 // -1.0
CF45M12A	4	45	3	±6	15	±12.5	1.0	2.5	80	550 // 3.0
CF50M24A	2	50.725	3	±12	14	±49	1.0	4.0	25	850 // 1.0
CF67M24A	2	67.5	3	±12	10	±50	0.6	4.0	30	1350 // -0.6
CF70M5.0A	2	70	3	±2.5	15	±10	1.0	5.0	30	1000 // 0
CF70M15A	4	70	3	±7.5	40	±40	2.0	6.0	70	400 // 4.0
CF70M22A	4	70	3	±11	15	±30	1.0	5.0	50	800 // 1.0
CF70M22B	4	70	3	±11	15	±30	1.0	5.0	50	820 // 1.0
CF70M22C	4	70	3	±11	15	±25	1.0	5.0	30	820 // 1.0

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**200MHz**

**2 poles**

**3 poles**

**4 poles**

## Part Number Format and Example

Model	No. of poles	Center Frequency (MHz)	Pass Bandwidth		Stop Bandwidth		Ripple	Insertion Loss	Guaranteed Attenuation	Terminating Impedance
			dB	KHz (min.)	dB	KHz (max.)	dB (max.)	dB (max.)	dB (max.)	ohms // pF
CF70M30A	4	70	3	±15	8	±25	1.0	4.0	50	600 // 1.0
CF70M50A	4	70	3	±25	20	±60	1.0	3.0	40	650 // 1.5
CF70M50B	4	70	3	±25	20	±60	0.5	3.0	40	1500 // 0.4
CF70M20A	4	70.05	3	±10	20	±25	1.0	4.5	70	800 // 1
CF72M50A	4	72	3	±25	20	±60	1.0	3.0	40	1300 // 0.2
CF73M15A	4	73.125	3	±7.5	20	±25	1.0	5.0	40	350 // 2.5
CF73M15B	4	73.125	3	±7.5	20	±25	1.0	5.0	40	350 // 2.5
CF73M20A	4	73.3	3	±10	5	±16	1.0	2.5	15	620 // 1
CF73M25A	4	73.3	3	±12.5	15	±25	1.0	6.0	40	800 // 1.5
CF73M15B	4	73.35	3	±7.5	30	±30	1.0	5.0	70	350 // 4
CF73M15D	4	73.35	3	±7.5	25	±25	1.0	5.0	80	350 // 2.5
CF73M16A	2	73.35	3	±8.0	15	±30	1.0	5.0	45	2500 // -0.8
CF73M25B	4	73.35	3	±12.5	15	±25	1.0	6.0	40	800 // 1.5
CF73M43A	3	73.35	3	±21.5	1	±24.5	1.5	2.5	10	1000 // -0.6
CF73M50B	4	73.35	3	±25	13.5	±50	1.0	2.5	28	1500 // -0.8
CF73M25C	4	73.4	3	±12.5	15	±25	1.0	6.0	40	800 // 1.5
CF76M8.0A	2	76.8	3	±4.0	35	±60	1.0	3.0	50	1500 // -0.3
CF81M40A	4	81.45	3	±20	3	±27.5	1.0	4.0	10	560 // 1
CF90M20A	4	90	3	±10	19	±25	1.0	6.0	34	250 // 4
CF90M20B	4	90	3	±10	19	±25	1.0	6.0	34	380 // 2.5
CF90M30A	2	90	3	±15	16	±50	0.5	1.0	30	3000 // -0.7
CF90M30B	2	90	3	±15	16	±58	0.5	2.5	50	720 // 2
CF90M50A	4	90	3	±25	15	±50	0.6	5.0	35	770 // 0.7
CF92M6.0A	2	92.16	3	±3.0	30	±30	1.0	3.0	30	2000 // 0.4
CF100M8.0A	2	100	3	±4.0	20	±25	2.0	4.0	30	800 // 0.65
CF100M4.0A	2	100	3	±2.0	15	±18	1.0	6.0	30	500 // 0.8
CF109M12A	3	109.35	3	±6.0	15	±25	1.0	3.0	50	950 // -1.4
CF149M24A	4	149.9725	3	±12	30	±70	1.0	7.0	45	160 // 1.5
CF154M30A	2	154.4	3	±15	18	±80	1.0	5.0	75	120 // -1
CF200M8.0A	2	200	3	±4.0	20	±40	1.0	4.5	30	700 // 0.6

## Dimensions [Unit: mm]

