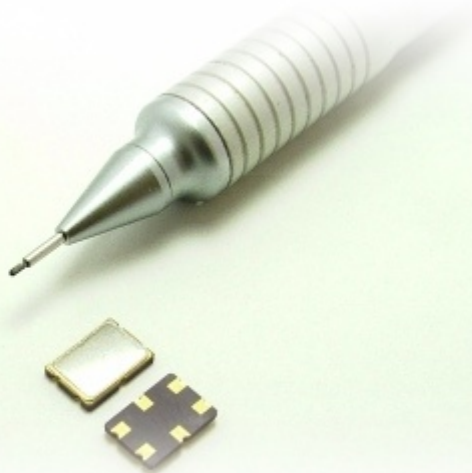


MONOLITHIC CRYSTAL FILTER, ACF 7050

AOR understand the right selection of the monolithic crystal filter that is mandatory for high-performance receiver design. ACF MCFs covers as low as 24MHz to 130MHz range with superb attenuation and low insertion loss.

- 21.4MHz FUNDAMENTAL
- 21.7MHz FUNDAMENTAL
- 45.0MHz FUNDAMENTAL



AOR, LTD.
Tokyo, Japan
www.aorja.com

□ Electrical Specifications (21.4MHz Fundamental Series)

Model	Nominal Frequency	Pole	Pass Bandwidth		Stop Bandwidth		Ripple	Loss	Ultimate Attenuation		Terminating Impedance	Coupling Capacitance	Case
	(MHz)		(dB)	(kHz)	(dB)	(kHz)			(dB)	(Fo±kHz)			
21S7.5A	21.400	2	3	±3.75	20	±18	1.0	2.0	70	-910	850 // 6.0	-	ACF7050-1
21S15A	21.400	2	3	±7.5	18	±25	1.0	2.0	70	-910	1500 // 1.5	-	ACF7050-1
21S20A	21.400	2	3	±10	10	±30	1.0	2.0	70	-910	1800 // 1.0	-	ACF7050-1
21S30A	21.400	2	3	±15	15	±45	1.0	2.0	70	-910	2000 // 1.5	-	ACF7050-1

□ Electrical Specifications (21.7MHz Fundamental Series)

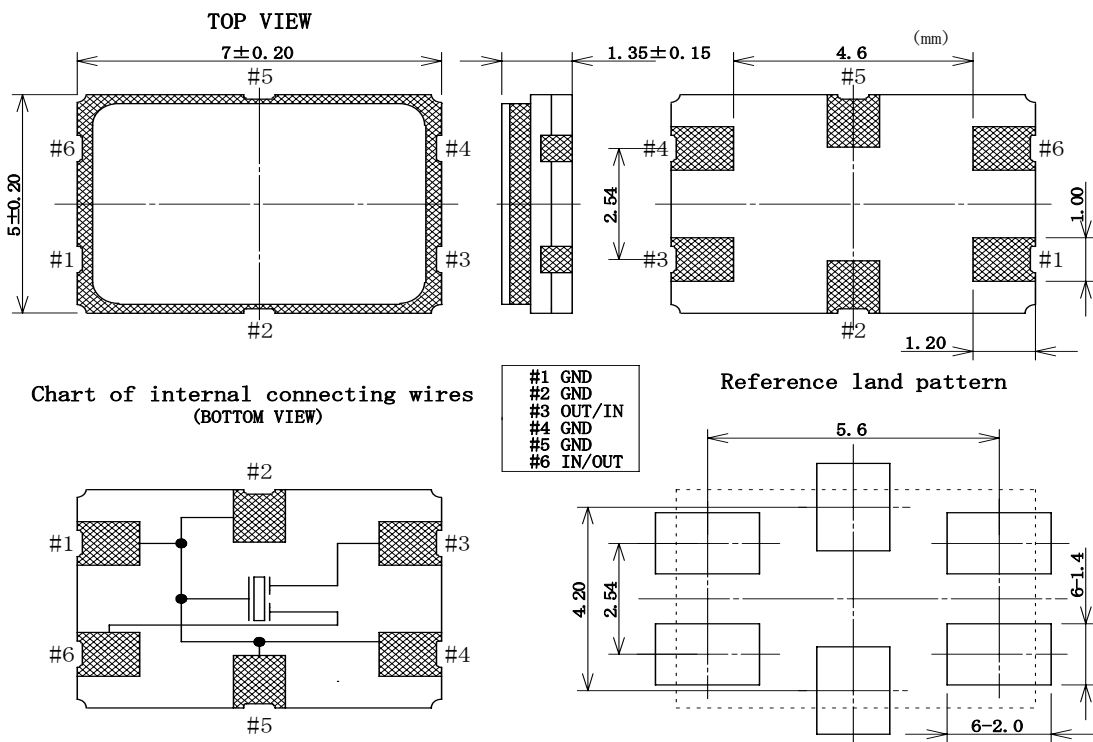
Model	Nominal Frequency	Pole	Pass Bandwidth		Stop Bandwidth		Ripple	Loss	Ultimate Attenuation		Terminating Impedance	Coupling Capacitance	Case
	(MHz)		(dB)	(kHz)	(dB)	(kHz)			(dB)	(dB)			
217S7.5A	21.700	2	3	±3.75	15	±12.5	1.0	2.0	70	-910	1200 // 5.0	-	ACF7050-1
217S15A	21.700	2	3	±7.5	15	±25	1.0	2.0	70	-910	1500 // 1.5	-	ACF7050-1

□ Electrical Specifications (45MHz Fundamental Series)

Model	Nominal Frequency	Pole	Pass Bandwidth		Stop Bandwidth		Ripple	Loss	Ultimate Attenuation		Terminating Impedance	Coupling Capacitance	Case
	(MHz)		(dB)	(kHz)	(dB)	(kHz)			(dB)	(dB)			
45S7.5A	45.000	2	3	±3.75	20	±25	1.0	2.0	70	-910	650 // 3.5	-	ACF7050-1
45S7.12A	45.000	2	3	±6.0	15	±20	1.0	2.0	70	-910	650 // 5.0	-	ACF7050-1
45S15A	45.000	2	3	±7.5	15	±25	1.0	2.0	70	-910	650 // 3.5	-	ACF7050-1
45S30A	45.000	2	3	±15	15	±60	1.0	2.0	70	-910	1200 // -3.0	-	ACF7050-1

□ Outline Drawings

Dimensions in mm. Do not scale.



MONOLITHIC CRYSTAL FILTER Ceramic SMD 4pole in 1package



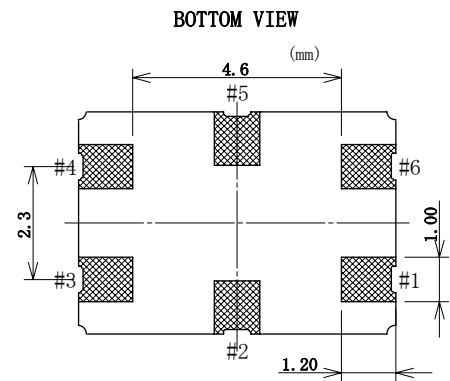
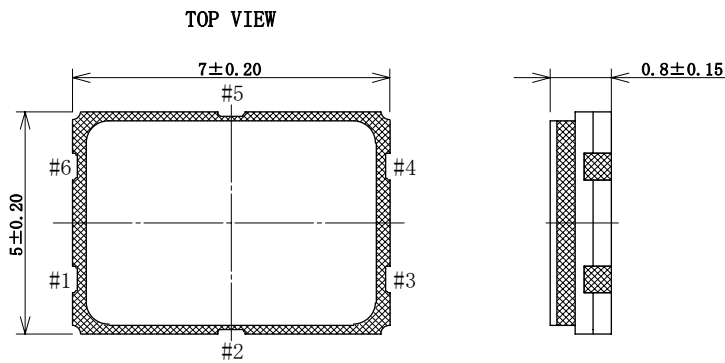
Electrical Specifications

Model	Nominal Frequency (MHz)	Pole	Pass Bandwidth		Stop Bandwidth		Ripple (dB)	Loss (dB)	Ultimate Attenuation		Terminating Impedance Zt (Ω // pF)	Coupling Capacitance Zc (pF)	Case
			(dB)	(kHz)	(dB)	(kHz)			(dB)	(Fo±kHz)			
45SS7.5B	45.000	4	3	±3.75	30	±12.5	1.0	4.0	80	-910	350 // 6.5	18.0	ACF7050-4P
45SS15B	45.000	4	3	±7.5	35	±25	1.0	3.0	80	-910	650 // 3.0	9.0	ACF7050-4P
45SS20B	45.000	4	3	±10	25	±25	1.0	3.0	80	-910	500 // 2.5	9.0	ACF7050-4P
45SS30B	45.000	4	3	±15	30	±50	1.0	3.0	80	-910	1200 // 0.7	3.5	ACF7050-4P

NOTE: Please consult us for other specifications.

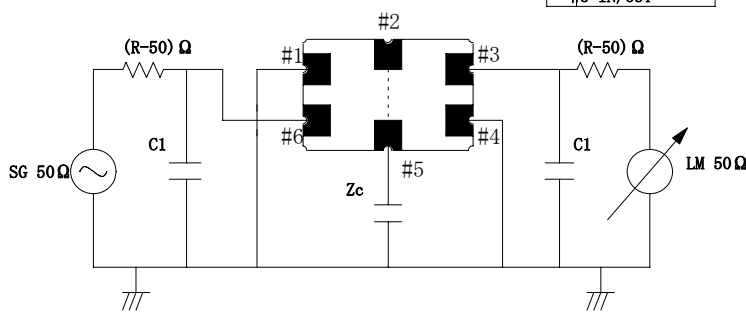
Outline Drawings

Dimensions in mm. Do not scale.



- #1 GND
- #2 Coupling CAP
- #3 OUT/IN
- #4 GND
- #5 Coupling CAP
- #6 IN/OUT

Measurement circuit chart (BOTTOM VIEW)



※Zc: The coupling capacitor external is necessary

Reference land pattern

