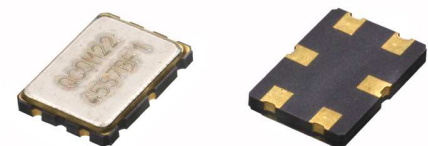
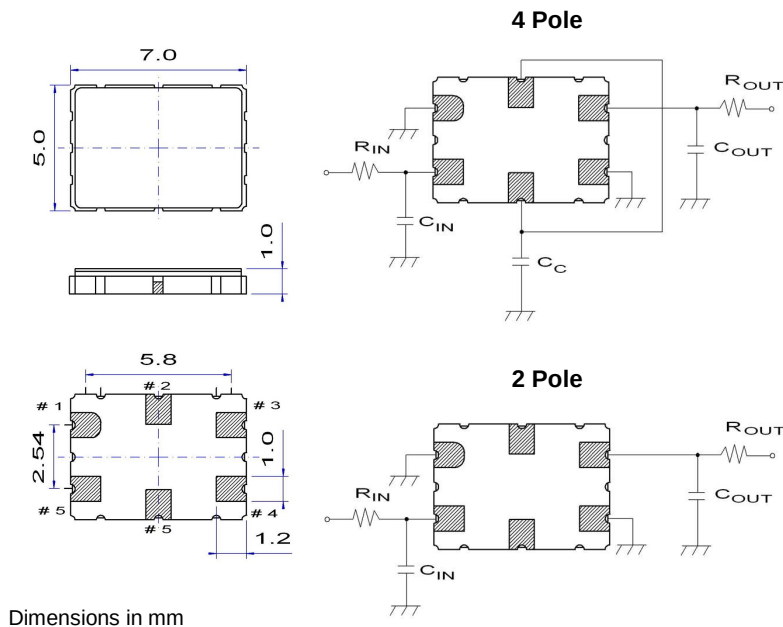


Ceramic packaged

SMD MCF

Type	Nominal Frequency	Pole	Pass Band		Attenuation Band		Ripple max.	Loss	Attenuation Guaranteed		Terminal Impedance	
	MHz	No.	dB	kHz	dB	kHz	dB	dB	dB	Fo ~ ± kHz	$Z_{IN} = Z_{OUT}$ $\Omega // pF$	Cc pF
21S7A	21.4000	2	3	± 3.75	18	± 18	1.0	1.5	50	-910 ± 10	850 // 6.0	
21S7B	21.4000	4	3	± 3.75	35	± 14	1.0	2.5	80	-910 ± 10	1000 // 4.5	4.5
21S12B	21.4000	4	3	± 6.0	30	± 20	1.0	2.5	80	-910 ± 10	1500 // 2.0	8.0
21S15A	21.4000	2	3	± 7.5	15	± 25	1.0	1.5	50	-910 ± 10	1500 // 2.0	
21S15B	21.4000	4	3	± 7.5	35	± 25	1.0	2.5	80	-910 ± 10	1500 // 5.0	5.0
21S30A	21.4000	2	3	± 15.0	15	± 45	1.0	1.5	45	-910 ± 10	3000 // 0	
21S30B	21.4000	4	3	± 15.0	35	± 50	1.0	2.5	80	-910 ± 10	3000 // -1.5	
32S8A	32.7680	2	3	± 4.0	40	± 40	1.0	2.0	60	-910 ± 10	650 // 4.5	
38S8AF	38.4000	2	3	± 4.0	40	± 40	1.0	2.0	65	-910 ± 10	650 // 4.5	
45S7BF	45.0000	4	3	± 3.75	30	± 12	1.0	4.0	80	-910 ± 10	550 // 2.5	15.5
45S15BF	45.0000	4	3	± 7.5	35	± 25	1.0	3.0	80	-910 ± 10	900 // 2.0	7.0
45S12BF10	45.1000	4	3	± 6.0	30	± 20	1.0	3.0	80	-910 ± 10	950 // 1.2	8.0
45S20BF	45.0000	4	3	± 10.0	25	± 25	1.0	3.0	80	-910 ± 10	1000 // 1.6	5.0
45S30BF	45.0000	4	3	± 15.0	30	± 50	1.0	3.0	80	-910 ± 10	1500 // 0.7	3.0
45S34AF	45.0000	4	3	± 17.0	15	± 60	1.0	2.5	65	-910 ± 10	800 // 2.9	
70S15A	70.0000	2	3	± 7.5	18	± 20	1.0	3.0	50	-910 ± 10	1500 // -1	
73S13B	73.0000	4	3	± 6.5	30	± 20	1.0	4.0	70	-910 ± 10	1700 // -0.6	1.3
90S7A	90.0000	2	3	± 10.0	15	± 35	1.0	4.0	30	-910 ± 10	1800 // -0.8	
92S6A	92.1600	2	3	± 3.0	30	± 30	1.0	3.0	30	-910 ± 10	2000 // -1.0	

Operating temperature range	-20 ~ +70 °C commercial application -30 ~ +75 °C on request -40 ~ +85 °C industrial application	
Packing SMD type	tape & reel: 500, 1k or 2k pieces	
Other Nominal Frequencies , Pass Band and Attenuations on request		



Example for IR Reflow Soldering Temperature

