

## Multilayer Ceramic Chip Capacitors

May 23, 2024  
Simple Model

Commercial Grade, General (Up to 75V) / C0402 series (1/4)

### Circuit Diagram



### Circuit Parameters

Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C0402C0G1C010C020BC	1	0.280	0.5647	10.0
C0402C0G1C020C020BC	2	0.280	0.4160	10.0
C0402C0G1C030C020BC	3	0.280	0.3975	10.0
C0402C0G1C040C020BC	4	0.280	0.3969	10.0
C0402C0G1C050C020BC	5	0.280	0.2800	10.0
C0402C0G1C060D020BC	6	0.280	0.3715	10.0
C0402C0G1C070D020BC	7	0.280	0.3010	10.0
C0402C0G1C080D020BC	8	0.280	0.3677	10.0
C0402C0G1C090D020BC	9	0.280	0.3606	10.0
C0402C0G1C100D020BC	10	0.280	0.3920	10.0
C0402C0G1C150J020BC	15	0.280	0.2664	10.0
C0402C0G1C150K020BC	15	0.280	0.2664	10.0
C0402C0G1C220J020BC	22	0.280	0.1965	10.0
C0402C0G1C220K020BC	22	0.280	0.1965	10.0
C0402C0G1C330J020BC	33	0.280	0.1673	10.0
C0402C0G1C330K020BC	33	0.280	0.1673	10.0
C0402C0G1C470J020BC	47	0.280	0.1506	10.0
C0402C0G1C470K020BC	47	0.280	0.1506	10.0
C0402C0G1C680J020BC	68	0.280	0.1301	10.0
C0402C0G1C680K020BC	68	0.280	0.1301	10.0
C0402C0G1C101J020BC	100	0.280	0.1124	10.0
C0402C0G1C101K020BC	100	0.280	0.1124	10.0
C0402X5R1C101K020BC	100	0.280	1.0868	10.0
C0402X5R1C101M020BC	100	0.280	1.0868	10.0
C0402X6S1A101K020BC	100	0.280	1.0868	10.0
C0402X6S1A101M020BC	100	0.280	1.0868	10.0
C0402X6S0J101K020BC	100	0.280	1.0868	10.0
C0402X6S0J101M020BC	100	0.280	1.0868	10.0
C0402X6S0G101K020BC	100	0.280	1.0868	10.0
C0402X6S0G101M020BC	100	0.280	1.0868	10.0
C0402X7R1A101K020BC	100	0.280	1.0868	10.0
C0402X7R1A101M020BC	100	0.280	1.0868	10.0
C0402X7R0J101K020BC	100	0.280	1.0868	10.0
C0402X7R0J101M020BC	100	0.280	1.0868	10.0
C0402X7R0G101K020BC	100	0.280	1.0868	10.0
C0402X7R0G101M020BC	100	0.280	1.0868	10.0

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### Circuit Diagram



### Circuit Parameters

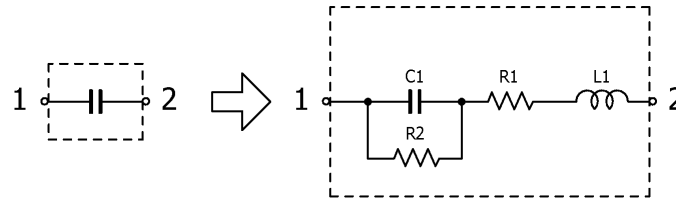
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C0402X5R1C151K020BC	150	0.280	0.8682	10.0
C0402X5R1C151M020BC	150	0.280	0.8682	10.0
C0402X6S1A151K020BC	150	0.280	0.8682	10.0
C0402X6S1A151M020BC	150	0.280	0.8682	10.0
C0402X6S0J151K020BC	150	0.280	0.8682	10.0
C0402X6S0J151M020BC	150	0.280	0.8682	10.0
C0402X6S0G151K020BC	150	0.280	0.8682	10.0
C0402X6S0G151M020BC	150	0.280	0.8682	10.0
C0402X7R1A151K020BC	150	0.280	0.8682	10.0
C0402X7R1A151M020BC	150	0.280	0.8682	10.0
C0402X7R0J151K020BC	150	0.280	0.8682	10.0
C0402X7R0J151M020BC	150	0.280	0.8682	10.0
C0402X7R0G151K020BC	150	0.280	0.8682	10.0
C0402X7R0G151M020BC	150	0.280	0.8682	10.0
C0402X5R1C221K020BC	220	0.280	0.7779	10.0
C0402X5R1C221M020BC	220	0.280	0.7779	10.0
C0402X6S1A221K020BC	220	0.280	0.7779	10.0
C0402X6S1A221M020BC	220	0.280	0.7779	10.0
C0402X6S0J221K020BC	220	0.280	0.7779	10.0
C0402X6S0J221M020BC	220	0.280	0.7779	10.0
C0402X6S0G221K020BC	220	0.280	0.7779	10.0
C0402X6S0G221M020BC	220	0.280	0.7779	10.0
C0402X7R1A221K020BC	220	0.280	0.7779	10.0
C0402X7R1A221M020BC	220	0.280	0.7779	10.0
C0402X7R0J221K020BC	220	0.280	0.7779	10.0
C0402X7R0J221M020BC	220	0.280	0.7779	10.0
C0402X7R0G221K020BC	220	0.280	0.7779	10.0
C0402X7R0G221M020BC	220	0.280	0.7779	10.0
C0402X5R1C331K020BC	330	0.280	0.5833	10.0
C0402X5R1C331M020BC	330	0.280	0.5833	10.0
C0402X6S1A331K020BC	330	0.280	0.5833	10.0
C0402X6S1A331M020BC	330	0.280	0.5833	10.0
C0402X6S0J331K020BC	330	0.280	0.5833	10.0
C0402X6S0J331M020BC	330	0.280	0.5833	10.0
C0402X6S0G331K020BC	330	0.280	0.5833	10.0
C0402X6S0G331M020BC	330	0.280	0.5833	10.0

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### Circuit Diagram



### Circuit Parameters

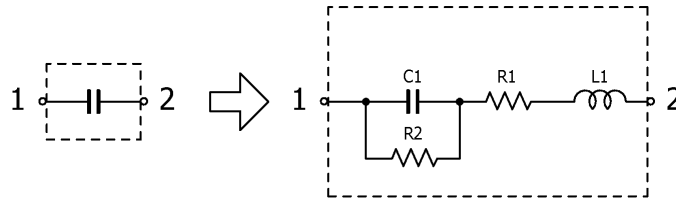
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C0402X7R1A331K020BC	330	0.280	0.5833	10.0
C0402X7R1A331M020BC	330	0.280	0.5833	10.0
C0402X7R0J331K020BC	330	0.280	0.5833	10.0
C0402X7R0J331M020BC	330	0.280	0.5833	10.0
C0402X7R0G331K020BC	330	0.280	0.5833	10.0
C0402X7R0G331M020BC	330	0.280	0.5833	10.0
C0402X5R1C471K020BC	470	0.280	0.4734	10.0
C0402X5R1C471M020BC	470	0.280	0.4734	10.0
C0402X6S1A471K020BC	470	0.280	0.4734	10.0
C0402X6S1A471M020BC	470	0.280	0.4734	10.0
C0402X6S0J471K020BC	470	0.280	0.4734	10.0
C0402X6S0J471M020BC	470	0.280	0.4734	10.0
C0402X6S0G471K020BC	470	0.280	0.4734	10.0
C0402X6S0G471M020BC	470	0.280	0.4734	10.0
C0402X7R1A471K020BC	470	0.280	0.4734	10.0
C0402X7R1A471M020BC	470	0.280	0.4734	10.0
C0402X7R0J471K020BC	470	0.280	0.4734	10.0
C0402X7R0J471M020BC	470	0.280	0.4734	10.0
C0402X7R0G471K020BC	470	0.280	0.4734	10.0
C0402X7R0G471M020BC	470	0.280	0.4734	10.0
C0402X5R1C681K020BC	680	0.280	0.4296	10.0
C0402X5R1C681M020BC	680	0.280	0.4296	10.0
C0402X6S1A681K020BC	680	0.280	0.4296	10.0
C0402X6S1A681M020BC	680	0.280	0.4296	10.0
C0402X6S0J681K020BC	680	0.280	0.4296	10.0
C0402X6S0J681M020BC	680	0.280	0.4296	10.0
C0402X6S0G681K020BC	680	0.280	0.4296	10.0
C0402X6S0G681M020BC	680	0.280	0.4296	10.0
C0402X7R1A681K020BC	680	0.280	0.4296	10.0
C0402X7R1A681M020BC	680	0.280	0.4296	10.0
C0402X7R0J681K020BC	680	0.280	0.4296	10.0
C0402X7R0J681M020BC	680	0.280	0.4296	10.0
C0402X7R0G681K020BC	680	0.280	0.4296	10.0
C0402X7R0G681M020BC	680	0.280	0.4296	10.0
C0402X5R1A102K020BC	1,000	0.280	0.3885	10.0
C0402X5R1A102M020BC	1,000	0.280	0.3885	10.0

## Multilayer Ceramic Chip Capacitors

May 23, 2024  
Simple Model

Commercial Grade, General (Up to 75V) / C0402 series (4/4)

### Circuit Diagram



### Circuit Parameters

Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C0402X5R0J102K020BC	1,000	0.280	0.3885	10.0
C0402X5R0J102M020BC	1,000	0.280	0.3885	10.0
C0402X5R0G102K020BC	1,000	0.280	0.3885	10.0
C0402X5R0G102M020BC	1,000	0.280	0.3885	10.0
C0402X7R1A102K020BC	1,000	0.280	0.3885	10.0
C0402X7R1A102M020BC	1,000	0.280	0.3885	10.0
C0402X5R1A152K020BC	1,500	0.280	0.2239	10.0
C0402X5R1A152M020BC	1,500	0.280	0.2239	10.0
C0402X5R0J152K020BC	1,500	0.280	0.2239	10.0
C0402X5R0J152M020BC	1,500	0.280	0.2239	10.0
C0402X5R0G152K020BC	1,500	0.280	0.2239	10.0
C0402X5R0G152M020BC	1,500	0.280	0.2239	10.0
C0402X7R1A152K020BC	1,500	0.280	0.2239	10.0
C0402X7R1A152M020BC	1,500	0.280	0.2239	10.0
C0402X5R1A222K020BC	2,200	0.280	0.1848	10.0
C0402X5R1A222M020BC	2,200	0.280	0.1848	10.0
C0402X5R0J222K020BC	2,200	0.280	0.1848	10.0
C0402X5R0J222M020BC	2,200	0.280	0.1848	10.0
C0402X5R0G222K020BC	2,200	0.280	0.1848	10.0
C0402X5R0G222M020BC	2,200	0.280	0.1848	10.0