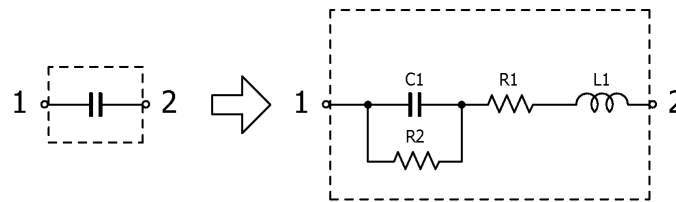


## Multilayer Ceramic Chip Capacitors

May 23, 2024  
Simple Model

Commercial Grade, General (Up to 75V) / C0603 series (1/6)

### Circuit Diagram



### Circuit Parameters

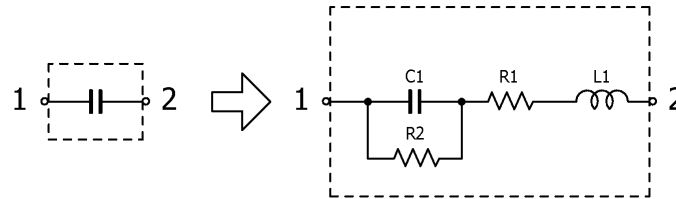
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C0603C0G1H010C030BA	1	0.300	0.5992	10.0
C0603C0G1E010C030BA	1	0.300	0.5992	10.0
C0603C0G1H020C030BA	2	0.300	0.4049	10.0
C0603C0G1E020C030BA	2	0.300	0.4049	10.0
C0603C0G1H030C030BA	3	0.300	0.4074	10.0
C0603C0G1E030C030BA	3	0.300	0.4074	10.0
C0603C0G1H040C030BA	4	0.300	0.3601	10.0
C0603C0G1E040C030BA	4	0.300	0.3601	10.0
C0603C0G1H050C030BA	5	0.300	0.4024	10.0
C0603C0G1E050C030BA	5	0.300	0.4024	10.0
C0603C0G1H060D030BA	6	0.300	0.3612	10.0
C0603C0G1E060D030BA	6	0.300	0.3612	10.0
C0603C0G1H070D030BA	7	0.300	0.3363	10.0
C0603C0G1E070D030BA	7	0.300	0.3363	10.0
C0603C0G1H080D030BA	8	0.300	0.3559	10.0
C0603C0G1E080D030BA	8	0.300	0.3559	10.0
C0603C0G1H090D030BA	9	0.300	0.2954	10.0
C0603C0G1E090D030BA	9	0.300	0.2954	10.0
C0603C0G1H100D030BA	10	0.300	0.3040	10.0
C0603C0G1E100D030BA	10	0.300	0.3040	10.0
C0603C0G1H150J030BA	15	0.300	0.2505	10.0
C0603C0G1H150K030BA	15	0.300	0.2505	10.0
C0603C0G1E150J030BA	15	0.300	0.2505	10.0
C0603C0G1E150K030BA	15	0.300	0.2505	10.0
C0603C0G1H220J030BA	22	0.300	0.2521	10.0
C0603C0G1H220K030BA	22	0.300	0.2521	10.0
C0603C0G1E220J030BA	22	0.300	0.2521	10.0
C0603C0G1E220K030BA	22	0.300	0.2521	10.0
C0603C0G1H330J030BA	33	0.300	0.2032	10.0
C0603C0G1H330K030BA	33	0.300	0.2032	10.0
C0603C0G1E330J030BA	33	0.300	0.2032	10.0
C0603C0G1E330K030BA	33	0.300	0.2032	10.0
C0603C0G1H470J030BA	47	0.300	0.1415	10.0
C0603C0G1H470K030BA	47	0.300	0.1415	10.0
C0603C0G1E470J030BA	47	0.300	0.1415	10.0
C0603C0G1E470K030BA	47	0.300	0.1415	10.0

## Multilayer Ceramic Chip Capacitors

May 23, 2024  
Simple Model

Commercial Grade, General (Up to 75V) / C0603 series (2/6)

### Circuit Diagram



### Circuit Parameters

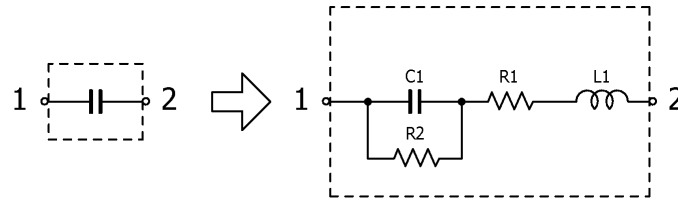
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C0603C0G1H680J030BA	68	0.300	0.1462	10.0
C0603C0G1H680K030BA	68	0.300	0.1462	10.0
C0603C0G1E680J030BA	68	0.300	0.1462	10.0
C0603C0G1E680K030BA	68	0.300	0.1462	10.0
C0603C0G1H101J030BA	100	0.300	0.1182	10.0
C0603C0G1H101K030BA	100	0.300	0.1182	10.0
C0603C0G1E101J030BA	100	0.300	0.1182	10.0
C0603C0G1E101K030BA	100	0.300	0.1182	10.0
C0603X5R1E101K030BA	100	0.300	0.9508	10.0
C0603X5R1E101M030BA	100	0.300	0.9508	10.0
C0603X7R1E101K030BA	100	0.300	0.9508	10.0
C0603X7R1E101M030BA	100	0.300	0.9508	10.0
C0603X5R1E151K030BA	150	0.300	0.9942	10.0
C0603X5R1E151M030BA	150	0.300	0.9942	10.0
C0603X7R1E151K030BA	150	0.300	0.9942	10.0
C0603X7R1E151M030BA	150	0.300	0.9942	10.0
C0603X5R1E221K030BA	220	0.300	0.5566	10.0
C0603X5R1E221M030BA	220	0.300	0.5566	10.0
C0603X7R1E221K030BA	220	0.300	0.5566	10.0
C0603X7R1E221M030BA	220	0.300	0.5566	10.0
C0603X5R1E331K030BA	330	0.300	0.4233	10.0
C0603X5R1E331M030BA	330	0.300	0.4233	10.0
C0603X7R1E331K030BA	330	0.300	0.4233	10.0
C0603X7R1E331M030BA	330	0.300	0.4233	10.0
C0603X5R1E471K030BA	470	0.300	0.4338	10.0
C0603X5R1E471M030BA	470	0.300	0.4338	10.0
C0603X7R1E471K030BA	470	0.300	0.4338	10.0
C0603X7R1E471M030BA	470	0.300	0.4338	10.0
C0603X5R1E681K030BA	680	0.300	0.2734	10.0
C0603X5R1E681M030BA	680	0.300	0.2734	10.0
C0603X7R1E681K030BA	680	0.300	0.2734	10.0
C0603X7R1E681M030BA	680	0.300	0.2734	10.0
C0603X5R1E102K030BA	1,000	0.300	0.2440	10.0
C0603X5R1E102M030BA	1,000	0.300	0.2440	10.0
C0603X7R1E102K030BA	1,000	0.300	0.2440	10.0
C0603X7R1E102M030BA	1,000	0.300	0.2440	10.0

## Multilayer Ceramic Chip Capacitors

May 23, 2024  
Simple Model

Commercial Grade, General (Up to 75V) / C0603 series (3/6)

### Circuit Diagram



### Circuit Parameters

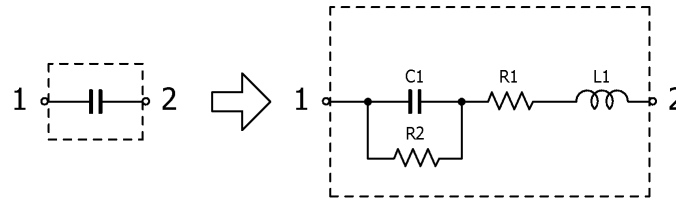
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C0603X5R1E152K030BA	1,500	0.300	0.1662	10.0
C0603X5R1E152M030BA	1,500	0.300	0.1662	10.0
C0603X7R1E152K030BA	1,500	0.300	0.1662	10.0
C0603X7R1E152M030BA	1,500	0.300	0.1662	10.0
C0603X5R1E222K030BA	2,200	0.300	0.1321	10.0
C0603X5R1E222M030BA	2,200	0.300	0.1321	10.0
C0603X6S1E222K030BA	2,200	0.300	0.1321	10.0
C0603X6S1E222M030BA	2,200	0.300	0.1321	10.0
C0603X6S1C222K030BA	2,200	0.300	0.1321	10.0
C0603X6S1C222M030BA	2,200	0.300	0.1321	10.0
C0603X6S1A222K030BA	2,200	0.300	0.1321	10.0
C0603X6S1A222M030BA	2,200	0.300	0.1321	10.0
C0603X6S0J222K030BA	2,200	0.300	0.1321	10.0
C0603X6S0J222M030BA	2,200	0.300	0.1321	10.0
C0603X7R1E222K030BA	2,200	0.300	0.1321	10.0
C0603X7R1E222M030BA	2,200	0.300	0.1321	10.0
C0603X7R1C222K030BA	2,200	0.300	0.1321	10.0
C0603X7R1C222M030BA	2,200	0.300	0.1321	10.0
C0603X7R1A222K030BA	2,200	0.300	0.1321	10.0
C0603X7R1A222M030BA	2,200	0.300	0.1321	10.0
C0603X7R0J222K030BA	2,200	0.300	0.1321	10.0
C0603X7R0J222M030BA	2,200	0.300	0.1321	10.0
C0603X5R1E332K030BA	3,300	0.300	0.0991	10.0
C0603X5R1E332M030BA	3,300	0.300	0.0991	10.0
C0603X7R1E332K030BA	3,300	0.300	0.0991	10.0
C0603X7R1E332M030BA	3,300	0.300	0.0991	10.0
C0603X5R1C472K030BA	4,700	0.300	0.0781	10.0
C0603X5R1C472M030BA	4,700	0.300	0.0781	10.0
C0603X6S1C472K030BA	4,700	0.300	0.0781	10.0
C0603X6S1C472M030BA	4,700	0.300	0.0781	10.0
C0603X6S1A472K030BA	4,700	0.300	0.0781	10.0
C0603X6S1A472M030BA	4,700	0.300	0.0781	10.0
C0603X6S0J472K030BA	4,700	0.300	0.0781	10.0
C0603X6S0J472M030BA	4,700	0.300	0.0781	10.0
C0603X7R1C472K030BA	4,700	0.300	0.0781	10.0
C0603X7R1C472M030BA	4,700	0.300	0.0781	10.0

## Multilayer Ceramic Chip Capacitors

May 23, 2024  
Simple Model

Commercial Grade, General (Up to 75V) / C0603 series (4/6)

### Circuit Diagram



### Circuit Parameters

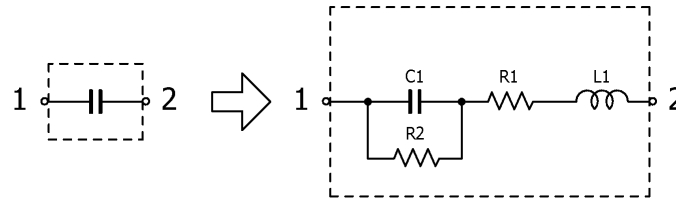
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C0603X7R1A472K030BA	4,700	0.300	0.0781	10.0
C0603X7R1A472M030BA	4,700	0.300	0.0781	10.0
C0603X7R0J472K030BA	4,700	0.300	0.0781	10.0
C0603X7R0J472M030BA	4,700	0.300	0.0781	10.0
C0603X5R1A682K030BA	6,800	0.300	0.0724	10.0
C0603X5R1A682M030BA	6,800	0.300	0.0724	10.0
C0603X5R1C103K030BA	10,000	0.300	0.0768	10.0
C0603X5R1C103M030BA	10,000	0.300	0.0768	10.0
C0603X5R1A103K030BA	10,000	0.300	0.0546	10.0
C0603X5R1A103M030BA	10,000	0.300	0.0546	10.0
C0603X6S1A103K030BA	10,000	0.300	0.0546	10.0
C0603X6S1A103M030BA	10,000	0.300	0.0546	10.0
C0603X6S0J103K030BA	10,000	0.300	0.0546	10.0
C0603X6S0J103M030BA	10,000	0.300	0.0546	10.0
C0603X7R1A103K030BA	10,000	0.300	0.0546	10.0
C0603X7R1A103M030BA	10,000	0.300	0.0546	10.0
C0603X7R0J103K030BA	10,000	0.300	0.0546	10.0
C0603X7R0J103M030BC	10,000	0.300	0.0546	10.0
C0603X5R1A153K030BC	15,000	0.300	0.0502	6.67
C0603X5R1A153M030BC	15,000	0.300	0.0502	6.67
C0603X5R0J153K030BA	15,000	0.300	0.0502	6.67
C0603X5R0J153M030BA	15,000	0.300	0.0502	6.67
C0603X5R1E223K030BB	22,000	0.300	0.0800	10.0
C0603X5R1E223M030BB	22,000	0.300	0.0800	10.0
C0603X6S1C223K030BC	22,000	0.300	0.0800	4.55
C0603X6S1C223M030BC	22,000	0.300	0.0800	4.55
C0603X6S1A223K030BB	22,000	0.300	0.0800	4.55
C0603X6S1A223M030BB	22,000	0.300	0.0800	4.55
C0603X7S1A223K030BC	22,000	0.300	0.0800	4.55
C0603X7S1A223M030BC	22,000	0.300	0.0800	4.55
C0603X7S0J223K030BB	22,000	0.300	0.0800	4.55
C0603X7S0J223M030BB	22,000	0.300	0.0800	4.55
C0603X5R1E473K030BB	47,000	0.300	0.0432	10.0
C0603X5R1E473M030BB	47,000	0.300	0.0432	10.0
C0603X6S1C473K030BC	47,000	0.300	0.0432	2.13
C0603X6S1C473M030BC	47,000	0.300	0.0432	2.13

## Multilayer Ceramic Chip Capacitors

May 23, 2024  
Simple Model

Commercial Grade, General (Up to 75V) / C0603 series (5/6)

### Circuit Diagram



### Circuit Parameters

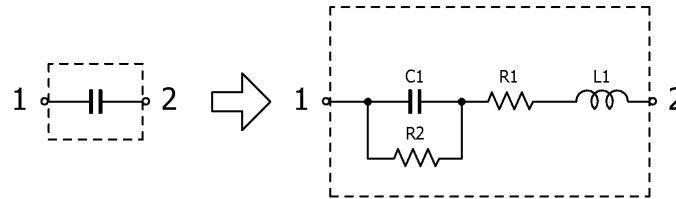
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C0603X6S1A473K030BB	47,000	0.300	0.0432	2.13
C0603X6S1A473M030BB	47,000	0.300	0.0432	2.13
C0603X7S1A473K030BC	47,000	0.300	0.0432	2.13
C0603X7S1A473M030BC	47,000	0.300	0.0432	2.13
C0603X7S0J473K030BB	47,000	0.300	0.0432	2.13
C0603X7S0J473M030BB	47,000	0.300	0.0432	2.13
C0603X5R1E104K030BB	100,000	0.300	0.0296	5.00
C0603X5R1E104M030BB	100,000	0.300	0.0296	5.00
C0603X5R1C104K030BC	100,000	0.300	0.0296	1.00
C0603X5R1C104M030BC	100,000	0.300	0.0296	1.00
C0603X5R1A104K030BC	100,000	0.300	0.0296	1.00
C0603X5R1A104M030BC	100,000	0.300	0.0296	1.00
C0603X6S1C104K030BC	100,000	0.300	0.0499	1.00
C0603X6S1C104M030BC	100,000	0.300	0.0499	1.00
C0603X6S0J104K030BC	100,000	0.300	0.0296	1.00
C0603X6S0J104M030BC	100,000	0.300	0.0296	1.00
C0603X7S1A104K030BC	100,000	0.300	0.0296	1.00
C0603X7S1A104M030BC	100,000	0.300	0.0296	1.00
C0603X7S0G104K030BC	100,000	0.300	0.0296	1.00
C0603X7S0G104M030BC	100,000	0.300	0.0296	1.00
C0603X5R1E154K030BC	150,000	0.300	0.0240	0.666
C0603X5R1E154M030BC	150,000	0.300	0.0240	0.666
C0603X5R1C154K030BC	150,000	0.300	0.0240	0.666
C0603X5R1C154M030BC	150,000	0.300	0.0240	0.666
C0603X5R1A154K030BB	150,000	0.300	0.0240	0.666
C0603X5R1A154M030BB	150,000	0.300	0.0240	0.666
C0603X5R0J154K030BB	150,000	0.300	0.0240	0.666
C0603X5R0J154M030BB	150,000	0.300	0.0240	0.666
C0603X6S1A154K030BC	150,000	0.300	0.0240	0.666
C0603X6S1A154M030BC	150,000	0.300	0.0240	0.666
C0603X6S0J154K030BC	150,000	0.300	0.0240	0.666
C0603X6S0J154M030BC	150,000	0.300	0.0240	0.666
C0603X6S0G154K030BB	150,000	0.300	0.0240	0.666
C0603X6S0G154M030BB	150,000	0.300	0.0240	0.666
C0603X7S0J154K030BC	150,000	0.300	0.0240	0.666
C0603X7S0J154M030BC	150,000	0.300	0.0240	0.666

## Multilayer Ceramic Chip Capacitors

May 23, 2024  
Simple Model

Commercial Grade, General (Up to 75V) / C0603 series (6/6)

### Circuit Diagram



### Circuit Parameters

Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C0603X5R1E224K030BC	220,000	0.300	0.0176	0.454
C0603X5R1E224M030BC	220,000	0.300	0.0176	0.454
C0603X5R1C224K030BC	220,000	0.300	0.0176	0.454
C0603X5R1C224M030BC	220,000	0.300	0.0176	0.454
C0603X5R1A224K030BB	220,000	0.300	0.0176	0.454
C0603X5R1A224M030BB	220,000	0.300	0.0176	0.454
C0603X5R0J224K030BB	220,000	0.300	0.0176	0.454
C0603X5R0J224M030BB	220,000	0.300	0.0176	0.454
C0603X6S1A224K030BC	220,000	0.300	0.0176	0.454
C0603X6S1A224M030BC	220,000	0.300	0.0176	0.454
C0603X6S0J224K030BC	220,000	0.300	0.0176	0.454
C0603X6S0J224M030BC	220,000	0.300	0.0176	0.454
C0603X6S0G224K030BB	220,000	0.300	0.0176	0.454
C0603X6S0G224M030BB	220,000	0.300	0.0176	0.454
C0603X7S0J224K030BC	220,000	0.300	0.0176	0.454
C0603X7S0J224M030BC	220,000	0.300	0.0176	0.454
C0603X7S0G224K030BC	220,000	0.300	0.0176	0.454
C0603X7S0G224M030BC	220,000	0.300	0.0176	0.454
C0603X5R1A334K030BC	330,000	0.300	0.0183	0.303
C0603X5R1A334M030BC	330,000	0.300	0.0183	0.303
C0603X5R0J334M030BC	330,000	0.300	0.0183	0.303
C0603X6S0G334K030BC	330,000	0.300	0.0183	0.303
C0603X6S0G334M030BC	330,000	0.300	0.0183	0.303
C0603X5R1A474M030BC	470,000	0.300	0.0179	0.212
C0603X5R0J474M030BC	470,000	0.300	0.0179	0.212
C0603X6S0G474M030BC	470,000	0.300	0.0133	0.212