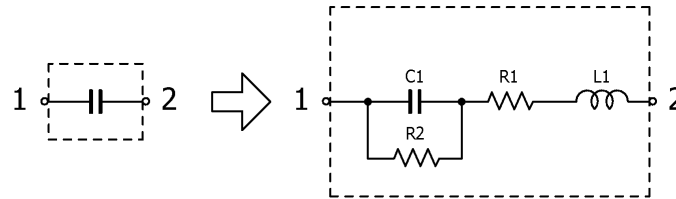


## Multilayer Ceramic Chip Capacitors

May 23, 2024  
Simple Model

Commercial Grade, Soft Termination / C1608 series (1/4)

### Circuit Diagram



### Circuit Parameters

Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C1608C0G1H101J080AE	100	0.420	0.1527	10.0
C1608C0G2A331J080AE	330	0.420	0.0710	10.0
C1608C0G1H331J080AE	330	0.420	0.0812	10.0
C1608C0G2A471J080AE	470	0.420	0.0664	10.0
C1608C0G1H471J080AE	470	0.420	0.0667	10.0
C1608C0G2A681J080AE	680	0.420	0.0532	10.0
C1608C0G1H681J080AE	680	0.420	0.0532	10.0
C1608C0G2E102J080AE	1,000	0.420	0.0500	10.0
C1608C0G2A102J080AE	1,000	0.420	0.0497	10.0
C1608C0G1H102J080AE	1,000	0.420	0.0451	10.0
C1608X7R2A102K080AE	1,000	0.420	0.2541	10.0
C1608X7R2A102M080AE	1,000	0.420	0.2511	10.0
C1608X7R1H102K080AE	1,000	0.420	0.3121	10.0
C1608X7R1H102M080AE	1,000	0.420	0.3151	10.0
C1608X8R2A102K080AE	1,000	0.420	0.1936	10.0
C1608X8R2A102M080AE	1,000	0.420	0.1906	10.0
C1608X8R1H102K080AE	1,000	0.420	0.1936	10.0
C1608X8R1H102M080AE	1,000	0.420	0.1906	10.0
C1608C0G2E122J080AE	1,200	0.420	0.0467	10.0
C1608C0G2A122J080AE	1,200	0.420	0.0344	10.0
C1608C0G2E152J080AE	1,500	0.420	0.0385	10.0
C1608C0G2A152J080AE	1,500	0.420	0.0385	10.0
C1608C0G1H152J080AE	1,500	0.420	0.0393	10.0
C1608C0G2E182J080AE	1,800	0.420	0.0357	10.0
C1608C0G2A182J080AE	1,800	0.420	0.0357	10.0
C1608C0G2A222J080AE	2,200	0.420	0.0348	10.0
C1608C0G1H222J080AE	2,200	0.420	0.0369	10.0
C1608X7R2A222K080AE	2,200	0.420	0.1503	10.0
C1608X7R2A222M080AE	2,200	0.420	0.1473	10.0
C1608X7R1H222K080AE	2,200	0.420	0.1663	10.0
C1608X7R1H222M080AE	2,200	0.420	0.1633	10.0
C1608X8R2A222K080AE	2,200	0.420	0.1409	10.0
C1608X8R2A222M080AE	2,200	0.420	0.1379	10.0
C1608X8R1H222K080AE	2,200	0.420	0.1409	10.0
C1608X8R1H222M080AE	2,200	0.420	0.1379	10.0
C1608C0G2A272J080AE	2,700	0.420	0.0315	10.0

## Multilayer Ceramic Chip Capacitors

May 23, 2024  
Simple Model

Commercial Grade, Soft Termination / C1608 series (2/4)

### Circuit Diagram



### Circuit Parameters

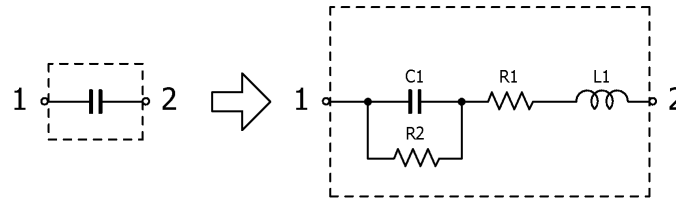
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C1608C0G2A332J080AE	3,300	0.420	0.0277	10.0
C1608C0G1H332J080AE	3,300	0.420	0.0309	10.0
C1608C0G2A392J080AE	3,900	0.420	0.0317	10.0
C1608C0G2A472J080AE	4,700	0.420	0.0306	10.0
C1608C0G1H472J080AE	4,700	0.420	0.0306	10.0
C1608X7R2A472K080AE	4,700	0.420	0.1144	10.0
C1608X7R2A472M080AE	4,700	0.420	0.1114	10.0
C1608X7R1H472K080AE	4,700	0.420	0.0956	10.0
C1608X7R1H472M080AE	4,700	0.420	0.0926	10.0
C1608X8R2A472K080AE	4,700	0.420	0.1019	10.0
C1608X8R2A472M080AE	4,700	0.420	0.0989	10.0
C1608X8R1H472K080AE	4,700	0.420	0.1019	10.0
C1608X8R1H472M080AE	4,700	0.420	0.0989	10.0
C1608C0G2A562J080AE	5,600	0.420	0.0289	10.0
C1608C0G2A682J080AE	6,800	0.420	0.0267	10.0
C1608C0G1H682J080AE	6,800	0.420	0.0267	10.0
C1608C0G2A822J080AE	8,200	0.420	0.0252	10.0
C1608C0G2A103J080AE	10,000	0.420	0.0235	10.0
C1608C0G1H103J080AE	10,000	0.420	0.0235	10.0
C1608X7R2A103K080AE	10,000	0.420	0.0703	10.0
C1608X7R2A103M080AE	10,000	0.420	0.0745	10.0
C1608X7R1H103K080AE	10,000	0.420	0.0588	10.0
C1608X7R1H103M080AE	10,000	0.420	0.0642	10.0
C1608X8R2A103K080AE	10,000	0.420	0.0559	10.0
C1608X8R2A103M080AE	10,000	0.420	0.0529	10.0
C1608X8R1H103K080AE	10,000	0.420	0.0559	10.0
C1608X8R1H103M080AE	10,000	0.420	0.0529	10.0
C1608X7R2A223K080AE	22,000	0.420	0.0413	10.0
C1608X7R2A223M080AE	22,000	0.420	0.0461	10.0
C1608X7R1H223K080AE	22,000	0.420	0.0427	10.0
C1608X7R1H223M080AE	22,000	0.420	0.0460	10.0
C1608X8R2A223K080AE	22,000	0.420	0.0572	10.0
C1608X8R2A223M080AE	22,000	0.420	0.0542	10.0
C1608X8R1H223K080AE	22,000	0.420	0.0446	10.0
C1608X8R1H223M080AE	22,000	0.420	0.0416	10.0
C1608X7R1H473K080AE	47,000	0.420	0.0282	10.0

## Multilayer Ceramic Chip Capacitors

May 23, 2024  
Simple Model

Commercial Grade, Soft Termination / C1608 series (3/4)

### Circuit Diagram



### Circuit Parameters

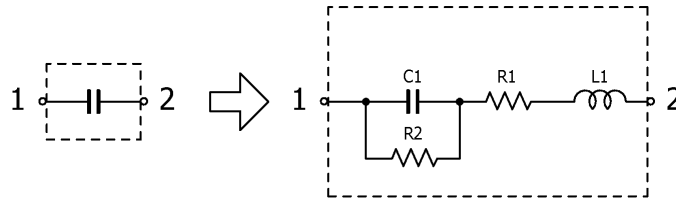
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C1608X7R1H473M080AE	47,000	0.420	0.0508	10.0
C1608X7S2A473K080AE	47,000	0.420	0.0414	10.0
C1608X7S2A473M080AE	47,000	0.420	0.0384	10.0
C1608X8R1H473K080AE	47,000	0.420	0.0245	10.0
C1608X8R1H473M080AE	47,000	0.420	0.0215	10.0
C1608X7R1H104K080AE	100,000	0.420	0.0213	5.00
C1608X7R1H104M080AE	100,000	0.420	0.0186	5.00
C1608X7S2A104K080AE	100,000	0.420	0.0293	5.00
C1608X7S2A104M080AE	100,000	0.420	0.0431	5.00
C1608X8R1H104K080AE	100,000	0.420	0.0240	5.00
C1608X8R1H104M080AE	100,000	0.420	0.0210	5.00
C1608X8R1E104K080AE	100,000	0.420	0.0180	5.00
C1608X8R1E104M080AE	100,000	0.420	0.0150	5.00
C1608X8R1E154K080AE	150,000	0.420	0.0219	3.33
C1608X7R1H224K080AE	220,000	0.420	0.0164	2.27
C1608X7R1H224M080AE	220,000	0.420	0.0187	2.27
C1608X8R1E224K080AE	220,000	0.420	0.0332	2.27
C1608X8R1E224M080AE	220,000	0.420	0.0302	2.27
C1608X8R1E334K080AE	330,000	0.420	0.0189	1.52
C1608X8R1E334M080AE	330,000	0.420	0.0159	1.52
C1608X8R1C334K080AE	330,000	0.420	0.0189	0.303
C1608X8R1C334M080AE	330,000	0.420	0.0159	0.303
C1608X7R1H474K080AE	470,000	0.420	0.0143	1.06
C1608X7R1H474M080AE	470,000	0.420	0.0149	1.06
C1608X7R1V474K080AE	470,000	0.420	0.0143	1.06
C1608X7R1V474M080AE	470,000	0.420	0.0113	1.06
C1608X7R1E474K080AE	470,000	0.420	0.0143	1.06
C1608X7R1E474M080AE	470,000	0.420	0.0136	1.06
C1608X8R1C474K080AE	470,000	0.420	0.0153	0.212
C1608X8R1C474M080AE	470,000	0.420	0.0123	0.212
C1608X7R1V105K080AE	1,000,000	0.420	0.0106	0.500
C1608X7R1V105M080AE	1,000,000	0.420	0.0076	0.500
C1608X7R1E105K080AE	1,000,000	0.420	0.0106	0.500
C1608X7R1E105M080AE	1,000,000	0.420	0.0131	0.500
C1608X5R1V225K080AE	2,200,000	0.420	0.0133	0.227
C1608X5R1E225K080AE	2,200,000	0.420	0.0133	0.227

## Multilayer Ceramic Chip Capacitors

May 23, 2024  
Simple Model

Commercial Grade, Soft Termination / C1608 series (4/4)

### Circuit Diagram



### Circuit Parameters

Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C1608X7R1A225K080AE	2,200,000	0.420	0.0093	0.0450
C1608X7R1A225M080AE	2,200,000	0.420	0.0059	0.0450
C1608X7S1C225K080AE	2,200,000	0.420	0.0087	0.0450
C1608X5R1C475K080AE	4,700,000	0.420	0.0088	0.0210
C1608X5R1A475K080AE	4,700,000	0.420	0.0094	0.0210
C1608X5R0J106K080AE	10,000,000	0.420	0.0099	0.0100