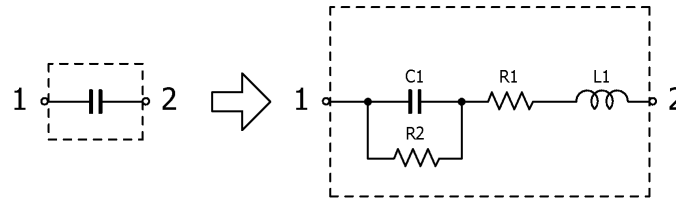


Multilayer Ceramic Chip Capacitors

May 23, 2024
Simple Model

Automotive Grade, Soft Termination / CGA3 series (1/4)

Circuit Diagram



Circuit Parameters

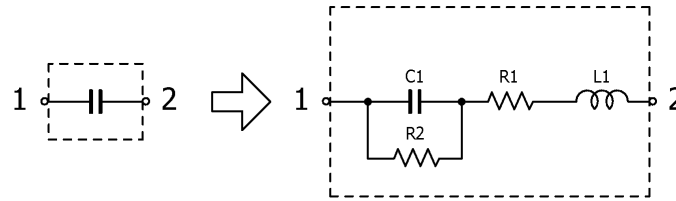
Part No.	C1[μ F]	L1[nH]	R1[ohm]	R2[Gohm]
CGA3E2C0G1H101J080AE	100	0.420	0.1527	10.0
CGA3E2C0G2A331J080AE	330	0.420	0.0710	10.0
CGA3E2C0G1H331J080AE	330	0.420	0.0857	10.0
CGA3E2C0G2A471J080AE	470	0.420	0.0664	10.0
CGA3E2C0G1H471J080AE	470	0.420	0.0667	10.0
CGA3E2C0G2A681J080AE	680	0.420	0.0532	10.0
CGA3E2C0G1H681J080AE	680	0.420	0.0593	10.0
CGA3E3C0G2E102J080AE	1,000	0.420	0.0500	10.0
CGA3E2C0G2A102J080AE	1,000	0.420	0.0497	10.0
CGA3E2C0G1H102J080AE	1,000	0.420	0.0451	10.0
CGA3E2X7R2A102K080AE	1,000	0.420	0.2541	10.0
CGA3E2X7R2A102M080AE	1,000	0.420	0.2541	10.0
CGA3E2X7R1H102K080AE	1,000	0.420	0.3121	10.0
CGA3E2X7R1H102M080AE	1,000	0.420	0.2710	10.0
CGA3E2X8R2A102K080AE	1,000	0.420	0.1936	10.0
CGA3E2X8R2A102M080AE	1,000	0.420	0.1936	10.0
CGA3E2X8R1H102K080AE	1,000	0.420	0.1936	10.0
CGA3E2X8R1H102M080AE	1,000	0.420	0.1936	10.0
CGA3E3C0G2E122J080AE	1,200	0.420	0.0467	10.0
CGA3E2C0G2A122J080AE	1,200	0.420	0.0344	10.0
CGA3E2C0G1H122J080AE	1,200	0.420	0.0418	10.0
CGA3E3C0G2E152J080AE	1,500	0.420	0.0385	10.0
CGA3E2C0G2A152J080AE	1,500	0.420	0.0385	10.0
CGA3E2C0G1H152J080AE	1,500	0.420	0.0393	10.0
CGA3E3C0G2E182J080AE	1,800	0.420	0.0357	10.0
CGA3E2C0G2A182J080AE	1,800	0.420	0.0357	10.0
CGA3E2C0G1H182J080AE	1,800	0.420	0.0365	10.0
CGA3E2C0G2A222J080AE	2,200	0.420	0.0348	10.0
CGA3E2C0G1H222J080AE	2,200	0.420	0.0369	10.0
CGA3E2X7R2A222K080AE	2,200	0.420	0.1503	10.0
CGA3E2X7R2A222M080AE	2,200	0.420	0.1503	10.0
CGA3E2X7R1H222K080AE	2,200	0.420	0.1663	10.0
CGA3E2X7R1H222M080AE	2,200	0.420	0.1609	10.0
CGA3E2X8R2A222K080AE	2,200	0.420	0.1409	10.0
CGA3E2X8R2A222M080AE	2,200	0.420	0.1409	10.0
CGA3E2X8R1H222K080AE	2,200	0.420	0.1409	10.0

Multilayer Ceramic Chip Capacitors

May 23, 2024
Simple Model

Automotive Grade, Soft Termination / CGA3 series (2/4)

Circuit Diagram



Circuit Parameters

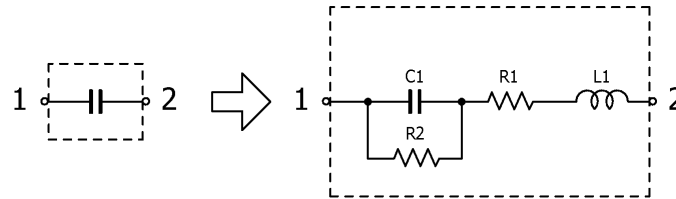
Part No.	C1[μ F]	L1[nH]	R1[ohm]	R2[Gohm]
CGA3E2X8R1H222M080AE	2,200	0.420	0.1409	10.0
CGA3E1C0G2A272J080AE	2,700	0.420	0.0342	10.0
CGA3E2C0G2A272J080AE	2,700	0.420	0.0340	10.0
CGA3E2C0G1H272J080AE	2,700	0.420	0.0342	10.0
CGA3E1C0G2A332J080AE	3,300	0.420	0.0309	10.0
CGA3E2C0G2A332J080AE	3,300	0.420	0.0303	10.0
CGA3E2C0G1H332J080AE	3,300	0.420	0.0309	10.0
CGA3E1C0G2A392J080AE	3,900	0.420	0.0317	10.0
CGA3E2C0G1H392J080AE	3,900	0.420	0.0317	10.0
CGA3E1C0G2A472J080AE	4,700	0.420	0.0306	10.0
CGA3E2C0G1H472J080AE	4,700	0.420	0.0306	10.0
CGA3E2X7R2A472K080AE	4,700	0.420	0.1144	10.0
CGA3E2X7R2A472M080AE	4,700	0.420	0.1144	10.0
CGA3E2X7R1H472K080AE	4,700	0.420	0.0956	10.0
CGA3E2X7R1H472M080AE	4,700	0.420	0.1040	10.0
CGA3E2X8R2A472K080AE	4,700	0.420	0.1019	10.0
CGA3E2X8R2A472M080AE	4,700	0.420	0.1019	10.0
CGA3E2X8R1H472K080AE	4,700	0.420	0.1019	10.0
CGA3E2X8R1H472M080AE	4,700	0.420	0.1019	10.0
CGA3E1C0G2A562J080AE	5,600	0.420	0.0289	10.0
CGA3E2C0G1H562J080AE	5,600	0.420	0.0289	10.0
CGA3E1C0G2A682J080AE	6,800	0.420	0.0267	10.0
CGA3E2C0G1H682J080AE	6,800	0.420	0.0267	10.0
CGA3E1C0G2A822J080AE	8,200	0.420	0.0252	10.0
CGA3E2C0G1H822J080AE	8,200	0.420	0.0252	10.0
CGA3E1C0G2A103J080AE	10,000	0.420	0.0235	10.0
CGA3E2C0G1H103J080AE	10,000	0.420	0.0235	10.0
CGA3E2X7R2A103K080AE	10,000	0.420	0.0703	10.0
CGA3E2X7R2A103M080AE	10,000	0.420	0.0703	10.0
CGA3E2X7R1H103K080AE	10,000	0.420	0.0588	10.0
CGA3E2X7R1H103M080AE	10,000	0.420	0.0588	10.0
CGA3E2X8R2A103K080AE	10,000	0.420	0.0559	10.0
CGA3E2X8R2A103M080AE	10,000	0.420	0.0559	10.0
CGA3E2X8R1H103K080AE	10,000	0.420	0.0559	10.0
CGA3E2X8R1H103M080AE	10,000	0.420	0.0559	10.0
CGA3E2X7R2A223K080AE	22,000	0.420	0.0413	10.0

Multilayer Ceramic Chip Capacitors

May 23, 2024
Simple Model

Automotive Grade, Soft Termination / CGA3 series (3/4)

Circuit Diagram



Circuit Parameters

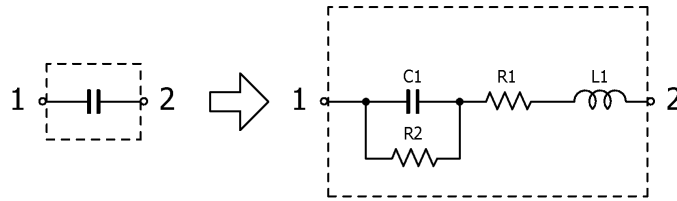
Part No.	C1[μ F]	L1[nH]	R1[ohm]	R2[Gohm]
CGA3E2X7R2A223M080AE	22,000	0.420	0.0413	10.0
CGA3E2X7R1H223K080AE	22,000	0.420	0.0427	10.0
CGA3E2X7R1H223M080AE	22,000	0.420	0.0427	10.0
CGA3E3X8R2A223K080AE	22,000	0.420	0.0572	10.0
CGA3E3X8R2A223M080AE	22,000	0.420	0.0572	10.0
CGA3E2X8R1H223K080AE	22,000	0.420	0.0446	10.0
CGA3E2X8R1H223M080AE	22,000	0.420	0.0446	10.0
CGA3E2X7R1H473K080AE	47,000	0.420	0.0282	10.0
CGA3E2X7R1H473M080AE	47,000	0.420	0.0282	10.0
CGA3E3X7S2A473K080AE	47,000	0.420	0.0414	10.0
CGA3E3X7S2A473M080AE	47,000	0.420	0.0414	10.0
CGA3E2X8R1H473K080AE	47,000	0.420	0.0245	10.0
CGA3E2X8R1H473M080AE	47,000	0.420	0.0245	10.0
CGA3E2X7R1H104K080AE	100,000	0.420	0.0213	5.00
CGA3E2X7R1H104M080AE	100,000	0.420	0.0213	5.00
CGA3E3X7S2A104K080AE	100,000	0.420	0.0293	5.00
CGA3E3X7S2A104M080AE	100,000	0.420	0.0293	5.00
CGA3E3X8R1H104K080AE	100,000	0.420	0.0240	5.00
CGA3E3X8R1H104M080AE	100,000	0.420	0.0240	5.00
CGA3E2X8R1E104K080AE	100,000	0.420	0.0180	5.00
CGA3E2X8R1E104M080AE	100,000	0.420	0.0180	5.00
CGA3E3X8R1E154K080AE	150,000	0.420	0.0219	3.33
CGA3E3X8R1E154M080AE	150,000	0.420	0.0219	3.33
CGA3E3X7R1H224K080AE	220,000	0.420	0.0178	2.27
CGA3E3X7R1H224M080AE	220,000	0.420	0.0201	2.27
CGA3E3X7R1V224K080AE	220,000	0.420	0.0201	2.27
CGA3E3X7R1V224M080AE	220,000	0.420	0.0201	2.27
CGA3E3X8R1E224K080AE	220,000	0.420	0.0332	2.27
CGA3E3X8R1E224M080AE	220,000	0.420	0.0332	2.27
CGA3E1X8R1E334K080AE	330,000	0.420	0.0189	1.52
CGA3E1X8R1E334M080AE	330,000	0.420	0.0189	1.52
CGA3E3X8R1C334K080AE	330,000	0.420	0.0189	0.303
CGA3E3X8R1C334M080AE	330,000	0.420	0.0189	0.303
CGA3E3X7R1H474K080AE	470,000	0.420	0.0161	1.06
CGA3E3X7R1H474M080AE	470,000	0.420	0.0161	1.06
CGA3E1X7R1V474K080AE	470,000	0.420	0.0143	1.06

Multilayer Ceramic Chip Capacitors

May 23, 2024
Simple Model

Automotive Grade, Soft Termination / CGA3 series (4/4)

Circuit Diagram



Circuit Parameters

Part No.	C1[μ F]	L1[nH]	R1[ohm]	R2[Gohm]
CGA3E1X7R1V474M080AE	470,000	0.420	0.0143	1.06
CGA3E3X7R1E474K080AE	470,000	0.420	0.0143	1.06
CGA3E3X7R1E474M080AE	470,000	0.420	0.0143	1.06
CGA3E3X8R1C474K080AE	470,000	0.420	0.0153	0.212
CGA3E3X8R1C474M080AE	470,000	0.420	0.0153	0.212
CGA3E1X7R1V105K080AE	1,000,000	0.420	0.0133	0.500
CGA3E1X7R1V105M080AE	1,000,000	0.420	0.0133	0.500
CGA3E1X7R1E105K080AE	1,000,000	0.420	0.0114	0.500
CGA3E1X7R1E105M080AE	1,000,000	0.420	0.0114	0.500
CGA3E1X7S1C225K080AE	2,200,000	0.420	0.0104	0.0450
CGA3E1X7S1C225M080AE	2,200,000	0.420	0.0104	0.0450
CGA3E3X7S1A225K080AE	2,200,000	0.420	0.0105	0.0450
CGA3E3X7S1A225M080AE	2,200,000	0.420	0.0105	0.0450