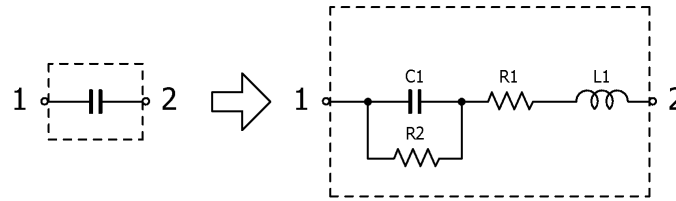


Multilayer Ceramic Chip Capacitors

July 26, 2019
Simple Model

Automotive Grade, General (Up to 75V) / CGA2 series (1/6)

Circuit Diagram



Circuit Parameters

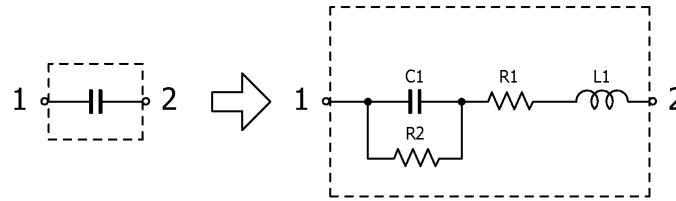
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
CGA2B2C0G1H010C050BA	1	0.370	0.8671	10.0
CGA2B2C0G1H1R5C050BA	1.5	0.370	0.7727	10.0
CGA2B2C0G1H020C050BA	2	0.370	0.5777	10.0
CGA2B2C0G1H2R2C050BA	2.2	0.370	0.8582	10.0
CGA2B2C0G1H030C050BA	3	0.370	0.5716	10.0
CGA2B2C0G1H3R3C050BA	3.3	0.370	0.6399	10.0
CGA2B2C0G1H040C050BA	4	0.370	0.4194	10.0
CGA2B2C0G1H4R7C050BA	4.7	0.370	0.4124	10.0
CGA2B2C0G1H050C050BA	5	0.370	0.3088	10.0
CGA2B2C0G1H060D050BA	6	0.370	0.3479	10.0
CGA2B2C0G1H6R8D050BA	6.8	0.370	0.3066	10.0
CGA2B2C0G1H070D050BA	7	0.370	0.2969	10.0
CGA2B2C0G1H080D050BA	8	0.370	0.2941	10.0
CGA2B2C0G1H090D050BA	9	0.370	0.2694	10.0
CGA2B2C0G1H100D050BA	10	0.370	0.2845	10.0
CGA2B2C0G1H120J050BA	12	0.370	0.2481	10.0
CGA2B2C0G1H150J050BA	15	0.370	0.2050	10.0
CGA2B2C0G1H180J050BA	18	0.370	0.2248	10.0
CGA2B2C0G1H220J050BA	22	0.370	0.1883	10.0
CGA2B2C0G1H270J050BA	27	0.370	0.1753	10.0
CGA2B2C0G1H330J050BA	33	0.370	0.1737	10.0
CGA2B2C0G1H390J050BA	39	0.370	0.1455	10.0
CGA2B2C0G1H470J050BA	47	0.370	0.1126	10.0
CGA2B2C0G1H560J050BA	56	0.370	0.1085	10.0
CGA2B2C0G1H680J050BA	68	0.370	0.1017	10.0
CGA2B2C0G1H820J050BA	82	0.370	0.1065	10.0
CGA2B2C0G1H101J050BA	100	0.370	0.1104	10.0
CGA2B2C0G1H121J050BA	120	0.370	0.0877	10.0
CGA2B2C0G1H151J050BA	150	0.370	0.0978	10.0
CGA2B2C0G1H181J050BA	180	0.370	0.0761	10.0
CGA2B2C0G1H221J050BA	220	0.370	0.0687	10.0
CGA2B2X5R1H221K050BA	220	0.370	0.5814	10.0
CGA2B2X5R1H221M050BA	220	0.370	0.5814	10.0
CGA2B2X7R1H221K050BA	220	0.370	0.5814	10.0
CGA2B2X7R1H221M050BA	220	0.370	0.5814	10.0
CGA2B2C0G1H271J050BA	270	0.370	0.0704	10.0

Multilayer Ceramic Chip Capacitors

July 26, 2019
Simple Model

Automotive Grade, General (Up to 75V) / CGA2 series (2/6)

Circuit Diagram



Circuit Parameters

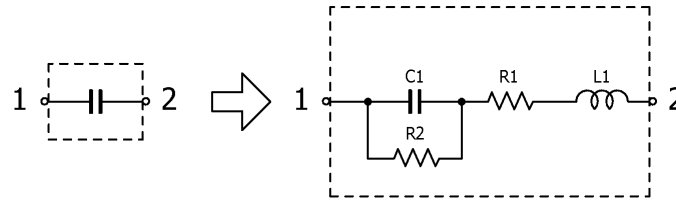
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
CGA2B2C0G1H331J050BA	330	0.370	0.0667	10.0
CGA2B2X5R1H331K050BA	330	0.370	0.4623	10.0
CGA2B2X5R1H331M050BA	330	0.370	0.4623	10.0
CGA2B2X7R1H331K050BA	330	0.370	0.4623	10.0
CGA2B2X7R1H331M050BA	330	0.370	0.4623	10.0
CGA2B2C0G1H391J050BA	390	0.370	0.0540	10.0
CGA2B2C0G1H471J050BA	470	0.370	0.0506	10.0
CGA2B2X5R1H471K050BA	470	0.370	0.4212	10.0
CGA2B2X5R1H471M050BA	470	0.370	0.4212	10.0
CGA2B2X7R1H471K050BA	470	0.370	0.4212	10.0
CGA2B2X7R1H471M050BA	470	0.370	0.4212	10.0
CGA2B2C0G1H561J050BA	560	0.370	0.0643	10.0
CGA2B2C0G1H681J050BA	680	0.370	0.0561	10.0
CGA2B2X5R1H681K050BA	680	0.370	0.2801	10.0
CGA2B2X5R1H681M050BA	680	0.370	0.2801	10.0
CGA2B2X7R1H681K050BA	680	0.370	0.2801	10.0
CGA2B2X7R1H681M050BA	680	0.370	0.2801	10.0
CGA2B2C0G1H821J050BA	820	0.370	0.0475	10.0
CGA2B2C0G1H102J050BA	1,000	0.370	0.0408	10.0
CGA2B2X5R1H102K050BA	1,000	0.370	0.2349	10.0
CGA2B2X5R1H102M050BA	1,000	0.370	0.2349	10.0
CGA2B2X7R1H102K050BA	1,000	0.370	0.2349	10.0
CGA2B2X7R1H102M050BA	1,000	0.370	0.2349	10.0
CGA2B2X5R1H152K050BA	1,500	0.370	0.1966	10.0
CGA2B2X5R1H152M050BA	1,500	0.370	0.1966	10.0
CGA2B2X7R1H152K050BA	1,500	0.370	0.1966	10.0
CGA2B2X7R1H152M050BA	1,500	0.370	0.1966	10.0
CGA2B2X5R1H222K050BA	2,200	0.370	0.1416	10.0
CGA2B2X5R1H222M050BA	2,200	0.370	0.1416	10.0
CGA2B2X7R1H222K050BA	2,200	0.370	0.1416	10.0
CGA2B2X7R1H222M050BA	2,200	0.370	0.1416	10.0
CGA2B2X5R1H332K050BA	3,300	0.370	0.1188	10.0
CGA2B2X5R1H332M050BA	3,300	0.370	0.1188	10.0
CGA2B2X7R1H332K050BA	3,300	0.370	0.1188	10.0
CGA2B2X7R1H332M050BA	3,300	0.370	0.1188	10.0
CGA2B2X5R1H472K050BA	4,700	0.370	0.0824	10.0

Multilayer Ceramic Chip Capacitors

July 26, 2019
Simple Model

Automotive Grade, General (Up to 75V) / CGA2 series (3/6)

Circuit Diagram



Circuit Parameters

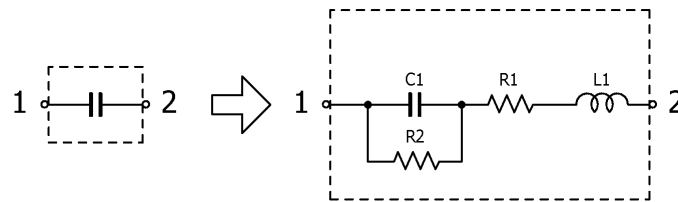
Part No.	C1[μ F]	L1[nH]	R1[ohm]	R2[Gohm]
CGA2B2X5R1H472M050BA	4,700	0.370	0.0824	10.0
CGA2B2X7R1H472K050BA	4,700	0.370	0.0824	10.0
CGA2B2X7R1H472M050BA	4,700	0.370	0.0824	10.0
CGA2B2X5R1H682K050BA	6,800	0.370	0.0747	10.0
CGA2B2X5R1H682M050BA	6,800	0.370	0.0747	10.0
CGA2B2X7R1H682K050BA	6,800	0.370	0.0747	10.0
CGA2B2X7R1H682M050BA	6,800	0.370	0.0747	10.0
CGA2B3X5R1H103K050BB	10,000	0.370	0.0806	10.0
CGA2B3X5R1H103M050BB	10,000	0.370	0.0806	10.0
CGA2B3X5R1V103K050BB	10,000	0.370	0.0806	10.0
CGA2B3X5R1V103M050BB	10,000	0.370	0.0806	10.0
CGA2B2X5R1E103K050BA	10,000	0.370	0.0722	10.0
CGA2B2X5R1E103M050BA	10,000	0.370	0.0722	10.0
CGA2B3X7R1H103K050BB	10,000	0.370	0.0806	10.0
CGA2B3X7R1H103M050BB	10,000	0.370	0.0806	10.0
CGA2B3X7R1V103K050BB	10,000	0.370	0.0806	10.0
CGA2B3X7R1V103M050BB	10,000	0.370	0.0806	10.0
CGA2B2X7R1E103K050BA	10,000	0.370	0.0722	10.0
CGA2B2X7R1E103M050BA	10,000	0.370	0.0722	10.0
CGA2B3X5R1H153K050BB	15,000	0.370	0.0583	10.0
CGA2B3X5R1H153M050BB	15,000	0.370	0.0583	10.0
CGA2B3X5R1V153K050BB	15,000	0.370	0.0583	10.0
CGA2B3X5R1V153M050BB	15,000	0.370	0.0583	10.0
CGA2B2X5R1E153K050BA	15,000	0.370	0.0640	10.0
CGA2B2X5R1E153M050BA	15,000	0.370	0.0640	10.0
CGA2B3X7R1H153K050BB	15,000	0.370	0.0583	10.0
CGA2B3X7R1H153M050BB	15,000	0.370	0.0583	10.0
CGA2B3X7R1V153K050BB	15,000	0.370	0.0583	10.0
CGA2B3X7R1V153M050BB	15,000	0.370	0.0583	10.0
CGA2B2X7R1E153K050BA	15,000	0.370	0.0640	10.0
CGA2B2X7R1E153M050BA	15,000	0.370	0.0640	10.0
CGA2B3X5R1H223K050BB	22,000	0.370	0.0436	10.0
CGA2B3X5R1H223M050BB	22,000	0.370	0.0436	10.0
CGA2B3X5R1V223K050BB	22,000	0.370	0.0436	10.0
CGA2B3X5R1V223M050BB	22,000	0.370	0.0436	10.0
CGA2B2X5R1E223K050BA	22,000	0.370	0.0421	10.0

Multilayer Ceramic Chip Capacitors

July 26, 2019
Simple Model

Automotive Grade, General (Up to 75V) / CGA2 series (4/6)

Circuit Diagram



Circuit Parameters

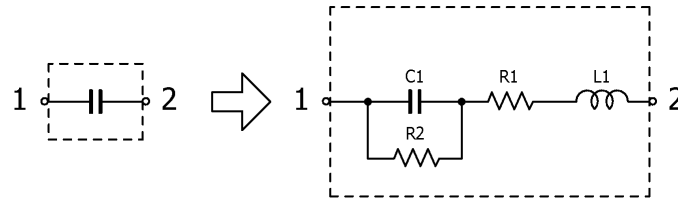
Part No.	C1[μ F]	L1[nH]	R1[ohm]	R2[Gohm]
CGA2B2X5R1E223M050BA	22,000	0.370	0.0421	10.0
CGA2B3X7R1H223K050BB	22,000	0.370	0.0436	10.0
CGA2B3X7R1H223M050BB	22,000	0.370	0.0436	10.0
CGA2B3X7R1V223K050BB	22,000	0.370	0.0436	10.0
CGA2B3X7R1V223M050BB	22,000	0.370	0.0436	10.0
CGA2B2X7R1E223K050BA	22,000	0.370	0.0421	10.0
CGA2B2X7R1E223M050BA	22,000	0.370	0.0421	10.0
CGA2B3X5R1H333K050BB	33,000	0.370	0.0310	10.0
CGA2B3X5R1H333M050BB	33,000	0.370	0.0310	10.0
CGA2B3X5R1V333K050BB	33,000	0.370	0.0310	10.0
CGA2B3X5R1V333M050BB	33,000	0.370	0.0310	10.0
CGA2B2X5R1E333K050BA	33,000	0.370	0.0361	10.0
CGA2B2X5R1E333M050BA	33,000	0.370	0.0361	10.0
CGA2B2X5R1C333K050BA	33,000	0.370	0.0333	3.03
CGA2B2X5R1C333M050BA	33,000	0.370	0.0333	3.03
CGA2B3X7R1H333K050BB	33,000	0.370	0.0310	10.0
CGA2B3X7R1H333M050BB	33,000	0.370	0.0310	10.0
CGA2B3X7R1V333K050BB	33,000	0.370	0.0310	10.0
CGA2B3X7R1V333M050BB	33,000	0.370	0.0310	10.0
CGA2B1X7R1E333K050BC	33,000	0.370	0.0361	10.0
CGA2B1X7R1E333M050BC	33,000	0.370	0.0361	10.0
CGA2B2X7R1C333K050BA	33,000	0.370	0.0333	3.03
CGA2B2X7R1C333M050BA	33,000	0.370	0.0333	3.03
CGA2B3X5R1H473K050BB	47,000	0.370	0.0263	10.0
CGA2B3X5R1H473M050BB	47,000	0.370	0.0263	10.0
CGA2B3X5R1V473K050BB	47,000	0.370	0.0263	10.0
CGA2B3X5R1V473M050BB	47,000	0.370	0.0263	10.0
CGA2B2X5R1E473K050BA	47,000	0.370	0.0235	10.0
CGA2B2X5R1E473M050BA	47,000	0.370	0.0235	10.0
CGA2B2X5R1C473K050BA	47,000	0.370	0.0235	2.13
CGA2B2X5R1C473M050BA	47,000	0.370	0.0235	2.13
CGA2B3X7R1H473K050BB	47,000	0.370	0.0263	10.0
CGA2B3X7R1H473M050BB	47,000	0.370	0.0263	10.0
CGA2B3X7R1V473K050BB	47,000	0.370	0.0263	10.0
CGA2B3X7R1V473M050BB	47,000	0.370	0.0263	10.0
CGA2B1X7R1E473K050BC	47,000	0.370	0.0235	10.0

Multilayer Ceramic Chip Capacitors

July 26, 2019
Simple Model

Automotive Grade, General (Up to 75V) / CGA2 series (5/6)

Circuit Diagram



Circuit Parameters

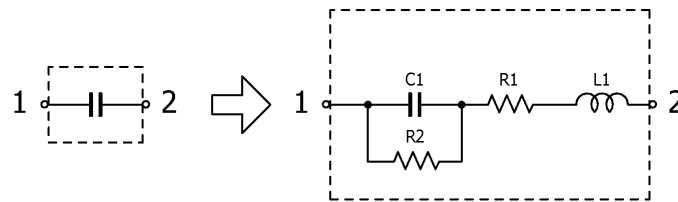
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
CGA2B1X7R1E473M050BC	47,000	0.370	0.0288	10.0
CGA2B2X7R1C473K050BA	47,000	0.370	0.0235	2.13
CGA2B2X7R1C473M050BA	47,000	0.370	0.0235	2.13
CGA2B3X5R1H683K050BB	68,000	0.370	0.0257	7.35
CGA2B3X5R1H683M050BB	68,000	0.370	0.0257	7.35
CGA2B3X5R1V683K050BB	68,000	0.370	0.0257	7.35
CGA2B3X5R1V683M050BB	68,000	0.370	0.0257	7.35
CGA2B3X5R1E683K050BB	68,000	0.370	0.0257	7.35
CGA2B3X5R1E683M050BB	68,000	0.370	0.0257	7.35
CGA2B2X5R1C683K050BA	68,000	0.370	0.0274	1.47
CGA2B2X5R1C683M050BA	68,000	0.370	0.0274	1.47
CGA2B3X7R1H683K050BB	68,000	0.370	0.0257	7.35
CGA2B3X7R1H683M050BB	68,000	0.370	0.0257	7.35
CGA2B3X7R1V683K050BB	68,000	0.370	0.0257	7.35
CGA2B3X7R1V683M050BB	68,000	0.370	0.0257	7.35
CGA2B3X7R1E683K050BB	68,000	0.370	0.0257	7.35
CGA2B3X7R1E683M050BB	68,000	0.370	0.0257	7.35
CGA2B1X7R1C683K050BC	68,000	0.370	0.0274	1.47
CGA2B1X7R1C683M050BC	68,000	0.370	0.0274	1.47
CGA2B3X5R1H104K050BB	100,000	0.370	0.0198	5.00
CGA2B3X5R1H104M050BB	100,000	0.370	0.0198	5.00
CGA2B3X5R1V104K050BB	100,000	0.370	0.0198	5.00
CGA2B3X5R1V104M050BB	100,000	0.370	0.0198	5.00
CGA2B3X5R1E104K050BB	100,000	0.370	0.0198	5.00
CGA2B3X5R1E104M050BB	100,000	0.370	0.0198	5.00
CGA2B2X5R1C104K050BA	100,000	0.370	0.0186	1.00
CGA2B2X5R1C104M050BA	100,000	0.370	0.0186	1.00
CGA2B2X5R1A104K050BA	100,000	0.370	0.0187	1.00
CGA2B2X5R1A104M050BA	100,000	0.370	0.0187	1.00
CGA2B3X7R1H104K050BB	100,000	0.370	0.0198	5.00
CGA2B3X7R1H104M050BB	100,000	0.370	0.0198	5.00
CGA2B3X7R1V104K050BB	100,000	0.370	0.0198	5.00
CGA2B3X7R1V104M050BB	100,000	0.370	0.0198	5.00
CGA2B3X7R1E104K050BB	100,000	0.370	0.0198	5.00
CGA2B3X7R1E104M050BB	100,000	0.370	0.0198	5.00
CGA2B1X7R1C104K050BC	100,000	0.370	0.0186	1.00

Multilayer Ceramic Chip Capacitors

July 26, 2019
Simple Model

Automotive Grade, General (Up to 75V) / CGA2 series (6/6)

Circuit Diagram



Circuit Parameters

Part No.	C1[μ F]	L1[nH]	R1[ohm]	R2[Gohm]
CGA2B1X7R1C104M050BC	100,000	0.370	0.0186	1.00
CGA2B1X5R1C154K050BC	150,000	0.370	0.0158	0.666
CGA2B1X5R1C154M050BC	150,000	0.370	0.0158	0.666
CGA2B3X5R1A154K050BB	150,000	0.370	0.0158	0.666
CGA2B3X5R1A154M050BB	150,000	0.370	0.0158	0.666
CGA2B1X7R1A154K050BC	150,000	0.370	0.0158	0.666
CGA2B1X7R1A154M050BC	150,000	0.370	0.0158	0.666
CGA2B3X7R0J154K050BB	150,000	0.370	0.0158	0.666
CGA2B3X7R0J154M050BB	150,000	0.370	0.0158	0.666
CGA2B1X5R1C224K050BC	220,000	0.370	0.0125	0.454
CGA2B1X5R1C224M050BC	220,000	0.370	0.0125	0.454
CGA2B3X5R1A224K050BB	220,000	0.370	0.0125	0.454
CGA2B3X5R1A224M050BB	220,000	0.370	0.0125	0.454
CGA2B1X7R1A224K050BC	220,000	0.370	0.0125	0.454
CGA2B1X7R1A224M050BC	220,000	0.370	0.0125	0.454
CGA2B3X7R0J224K050BB	220,000	0.370	0.0125	0.454
CGA2B3X7R0J224M050BB	220,000	0.370	0.0125	0.454
CGA2B1X7S1C334K050BC	330,000	0.370	0.0106	0.303
CGA2B1X7S1C334M050BC	330,000	0.370	0.0106	0.303
CGA2B3X7S1A334K050BB	330,000	0.370	0.0106	0.303
CGA2B3X7S1A334M050BB	330,000	0.370	0.0106	0.303
CGA2B1X7S1C474K050BC	470,000	0.370	0.0098	0.212
CGA2B1X7S1C474M050BC	470,000	0.370	0.0098	0.212
CGA2B3X7S1A474K050BB	470,000	0.370	0.0098	0.212
CGA2B3X7S1A474M050BB	470,000	0.370	0.0098	0.212
CGA2B1X7T0G105M050BC	1,000,000	0.370	0.0099	0.100