

## Multilayer Ceramic Chip Capacitors

May 23, 2024  
Simple Model

Automotive Grade, General (Up to 75V) / CGA4 series (1/5)

### Circuit Diagram



### Circuit Parameters

Part No.	C1[ $\mu$ F]	L1[nH]	R1[ohm]	R2[Gohm]
CGA4C2C0G1H102J060AA	1,000	0.480	0.0399	10.0
CGA4C2C0G1H122J060AA	1,200	0.480	0.0411	10.0
CGA4C2C0G1H152J060AA	1,500	0.480	0.0356	10.0
CGA4C2C0G1H182J060AA	1,800	0.480	0.0320	10.0
CGA4C2C0G1H222J060AA	2,200	0.480	0.0254	10.0
CGA4C2C0G1H272J060AA	2,700	0.480	0.0528	10.0
CGA4C2C0G1H332J060AA	3,300	0.480	0.0268	10.0
CGA4C2C0G1H392J060AA	3,900	0.480	0.0257	10.0
CGA4C2C0G1H472J060AA	4,700	0.480	0.0436	10.0
CGA4C2C0G1H562J060AA	5,600	0.480	0.0207	10.0
CGA4C2C0G1H682J060AA	6,800	0.480	0.0198	10.0
CGA4C2C0G1H822J060AA	8,200	0.480	0.0162	10.0
CGA4C2C0G1H103J060AA	10,000	0.480	0.0370	10.0
CGA4F2C0G1H153J085AA	15,000	0.480	0.0130	10.0
CGA4J2C0G1H223J125AA	22,000	0.480	0.0120	10.0
CGA4J2C0G1H333J125AA	33,000	0.480	0.0085	10.0
CGA4J2X7R1H154K125AA	150,000	0.480	0.0114	3.33
CGA4J2X7R1H154M125AA	150,000	0.480	0.0114	3.33
CGA4J2X5R1H224K125AA	220,000	0.480	0.0116	2.27
CGA4J2X5R1H224M125AA	220,000	0.480	0.0116	2.27
CGA4J2X7R1H224K125AA	220,000	0.480	0.0116	2.27
CGA4J2X7R1H224M125AA	220,000	0.480	0.0116	2.27
CGA4J2X7R1E224K125AA	220,000	0.480	0.0116	2.27
CGA4J2X5R1H334K125AA	330,000	0.480	0.0101	1.52
CGA4J2X5R1H334M125AA	330,000	0.480	0.0101	1.52
CGA4J2X7R1H334K125AA	330,000	0.480	0.0101	1.52
CGA4J2X7R1H334M125AA	330,000	0.480	0.0101	1.52
CGA4J3X5R1H474K125AB	470,000	0.480	0.0151	1.06
CGA4J3X5R1H474M125AB	470,000	0.480	0.0151	1.06
CGA4J3X5R1V474K125AB	470,000	0.480	0.0151	1.06
CGA4J3X5R1V474M125AB	470,000	0.480	0.0151	1.06
CGA4J2X5R1E474K125AA	470,000	0.480	0.0086	1.06
CGA4J2X5R1E474M125AA	470,000	0.480	0.0086	1.06
CGA4J3X7R1H474K125AB	470,000	0.480	0.0077	1.06
CGA4J3X7R1H474M125AB	470,000	0.480	0.0077	1.06
CGA4J3X7R1V474K125AB	470,000	0.480	0.0077	1.06

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### Circuit Diagram



### Circuit Parameters

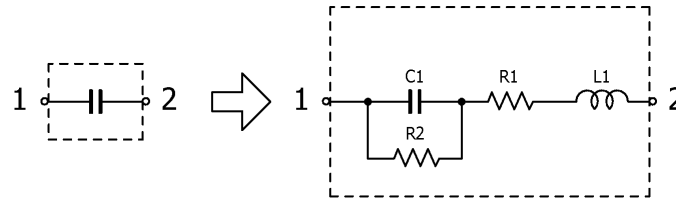
Part No.	C1[ $\mu$ F]	L1[nH]	R1[ohm]	R2[Gohm]
CGA4J3X7R1V474M125AB	470,000	0.480	0.0077	1.06
CGA4J2X7R1E474K125AA	470,000	0.480	0.0086	1.06
CGA4J2X7R1E474M125AA	470,000	0.480	0.0086	1.06
CGA4J2X7R1C474K125AA	470,000	0.480	0.0090	1.06
CGA4J3X5R1H684K125AB	680,000	0.480	0.0105	0.735
CGA4J3X5R1H684M125AB	680,000	0.480	0.0105	0.735
CGA4J3X5R1V684K125AB	680,000	0.480	0.0105	0.735
CGA4J3X5R1V684M125AB	680,000	0.480	0.0105	0.735
CGA4J2X5R1E684K125AA	680,000	0.480	0.0124	0.735
CGA4J2X5R1E684M125AA	680,000	0.480	0.0124	0.735
CGA4J2X5R1C684K125AA	680,000	0.480	0.0075	0.147
CGA4J2X5R1C684M125AA	680,000	0.480	0.0075	0.147
CGA4J3X7R1H684K125AB	680,000	0.480	0.0064	0.735
CGA4J3X7R1H684M125AB	680,000	0.480	0.0064	0.735
CGA4J3X7R1V684K125AB	680,000	0.480	0.0064	0.735
CGA4J3X7R1V684M125AB	680,000	0.480	0.0064	0.735
CGA4J3X7R1E684K125AB	680,000	0.480	0.0124	0.735
CGA4J3X7R1E684M125AB	680,000	0.480	0.0124	0.735
CGA4J2X7R1C684K125AA	680,000	0.480	0.0075	0.147
CGA4J2X7R1C684M125AA	680,000	0.480	0.0074	0.147
CGA4J3X5R1H105K125AB	1,000,000	0.480	0.0091	0.500
CGA4J3X5R1H105M125AB	1,000,000	0.480	0.0091	0.500
CGA4J3X5R1V105K125AB	1,000,000	0.480	0.0091	0.500
CGA4J3X5R1V105M125AB	1,000,000	0.480	0.0091	0.500
CGA4J2X5R1E105K125AA	1,000,000	0.480	0.0073	0.500
CGA4J2X5R1E105M125AA	1,000,000	0.480	0.0073	0.500
CGA4J2X5R1C105K125AA	1,000,000	0.480	0.0059	0.100
CGA4J2X5R1C105M125AA	1,000,000	0.480	0.0059	0.100
CGA4J3X7R1H105K125AB	1,000,000	0.480	0.0053	0.500
CGA4J3X7R1H105M125AB	1,000,000	0.480	0.0053	0.500
CGA4J3X7R1V105K125AB	1,000,000	0.480	0.0053	0.500
CGA4J3X7R1V105M125AB	1,000,000	0.480	0.0053	0.500
CGA4J3X7R1E105K125AB	1,000,000	0.480	0.0073	0.500
CGA4J3X7R1E105M125AB	1,000,000	0.480	0.0073	0.500
CGA4J2X7R1C105K125AA	1,000,000	0.480	0.0059	0.100
CGA4J2X7R1C105M125AA	1,000,000	0.480	0.0059	0.100

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### Circuit Diagram



### Circuit Parameters

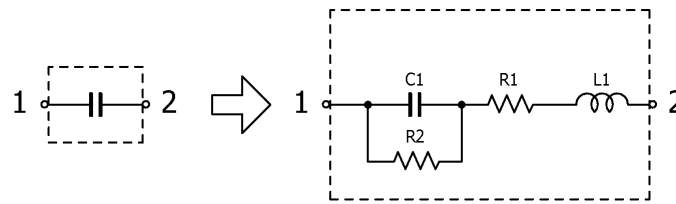
Part No.	C1[ $\mu$ F]	L1[nH]	R1[ohm]	R2[Gohm]
CGA4J3X5R1H155K125AB	1,500,000	0.480	0.0049	0.333
CGA4J3X5R1H155M125AB	1,500,000	0.480	0.0049	0.333
CGA4J3X5R1V155K125AB	1,500,000	0.480	0.0049	0.333
CGA4J3X5R1V155M125AB	1,500,000	0.480	0.0049	0.333
CGA4J3X5R1E155K125AB	1,500,000	0.480	0.0049	0.333
CGA4J3X5R1E155M125AB	1,500,000	0.480	0.0049	0.333
CGA4J2X5R1C155K125AA	1,500,000	0.480	0.0061	0.0660
CGA4J2X5R1C155M125AA	1,500,000	0.480	0.0061	0.0660
CGA4J2X5R1A155K125AA	1,500,000	0.480	0.0052	0.0660
CGA4J2X5R1A155M125AA	1,500,000	0.480	0.0052	0.0660
CGA4J3X7R1H155K125AB	1,500,000	0.480	0.0057	0.333
CGA4J3X7R1H155M125AB	1,500,000	0.480	0.0057	0.333
CGA4J1X7R1V155K125AC	1,500,000	0.480	0.0049	0.333
CGA4J1X7R1V155M125AC	1,500,000	0.480	0.0049	0.333
CGA4J3X7R1E155K125AB	1,500,000	0.480	0.0049	0.333
CGA4J3X7R1E155M125AB	1,500,000	0.480	0.0061	0.333
CGA4J3X7R1C155K125AB	1,500,000	0.480	0.0061	0.0660
CGA4J3X7R1C155M125AB	1,500,000	0.480	0.0061	0.0660
CGA4J3X5R1H225K125AB	2,200,000	0.480	0.0047	0.227
CGA4J3X5R1H225M125AB	2,200,000	0.480	0.0047	0.227
CGA4J3X5R1V225K125AB	2,200,000	0.480	0.0047	0.227
CGA4J3X5R1V225M125AB	2,200,000	0.480	0.0047	0.227
CGA4J3X5R1E225K125AB	2,200,000	0.480	0.0047	0.227
CGA4J3X5R1E225M125AB	2,200,000	0.480	0.0047	0.227
CGA4J2X5R1C225K125AA	2,200,000	0.480	0.0049	0.0450
CGA4J2X5R1C225M125AA	2,200,000	0.480	0.0049	0.0450
CGA4J2X5R1A225K125AA	2,200,000	0.480	0.0042	0.0450
CGA4J2X5R1A225M125AA	2,200,000	0.480	0.0042	0.0450
CGA4J3X7R1H225K125AB	2,200,000	0.480	0.0044	0.227
CGA4J3X7R1H225M125AB	2,200,000	0.480	0.0044	0.227
CGA4J1X7R1V225K125AC	2,200,000	0.480	0.0047	0.227
CGA4J1X7R1V225M125AC	2,200,000	0.480	0.0047	0.227
CGA4J3X7R1E225K125AB	2,200,000	0.480	0.0047	0.227
CGA4J3X7R1E225M125AB	2,200,000	0.480	0.0047	0.227
CGA4J3X7R1C225K125AB	2,200,000	0.480	0.0049	0.0450
CGA4J3X7R1C225M125AB	2,200,000	0.480	0.0049	0.0450

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Simple Model

Automotive Grade, General (Up to 75V) / CGA4 series (4/5)

### Circuit Diagram



### Circuit Parameters

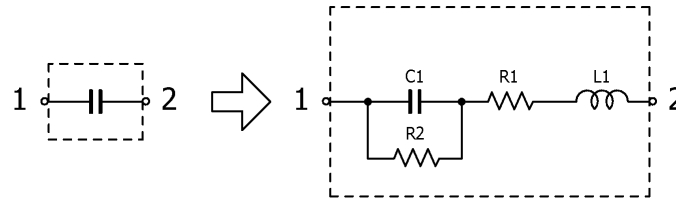
Part No.	C1[ $\mu$ F]	L1[nH]	R1[ohm]	R2[Gohm]
CGA4J3X5R1H335K125AB	3,300,000	0.480	0.0037	0.151
CGA4J3X5R1H335M125AB	3,300,000	0.480	0.0037	0.151
CGA4J3X5R1V335K125AB	3,300,000	0.480	0.0037	0.151
CGA4J3X5R1V335M125AB	3,300,000	0.480	0.0037	0.151
CGA4J3X5R1E335K125AB	3,300,000	0.480	0.0037	0.151
CGA4J3X5R1E335M125AB	3,300,000	0.480	0.0037	0.151
CGA4J3X5R1C335K125AB	3,300,000	0.480	0.0037	0.0300
CGA4J3X5R1C335M125AB	3,300,000	0.480	0.0037	0.0300
CGA4J2X5R1A335K125AA	3,300,000	0.480	0.0042	0.0300
CGA4J2X5R1A335M125AA	3,300,000	0.480	0.0042	0.0300
CGA4J1X7R1V335K125AC	3,300,000	0.480	0.0046	0.151
CGA4J1X7R1V335M125AC	3,300,000	0.480	0.0046	0.151
CGA4J1X7R1E335K125AC	3,300,000	0.480	0.0037	0.151
CGA4J1X7R1E335M125AC	3,300,000	0.480	0.0037	0.151
CGA4J3X7R1C335K125AB	3,300,000	0.480	0.0037	0.0300
CGA4J3X7R1C335M125AB	3,300,000	0.480	0.0037	0.0300
CGA4J3X7R1A335K125AB	3,300,000	0.480	0.0037	0.0300
CGA4J3X5R1H475K125AB	4,700,000	0.480	0.0028	0.106
CGA4J3X5R1H475M125AB	4,700,000	0.480	0.0028	0.106
CGA4J3X5R1V475K125AB	4,700,000	0.480	0.0028	0.106
CGA4J3X5R1V475M125AB	4,700,000	0.480	0.0028	0.106
CGA4J3X5R1E475K125AB	4,700,000	0.480	0.0028	0.106
CGA4J3X5R1E475M125AB	4,700,000	0.480	0.0028	0.106
CGA4J3X5R1C475K125AB	4,700,000	0.480	0.0031	0.106
CGA4J3X5R1C475M125AB	4,700,000	0.480	0.0031	0.106
CGA4J2X5R1A475K125AA	4,700,000	0.480	0.0024	0.0210
CGA4J2X5R1A475M125AA	4,700,000	0.480	0.0024	0.0210
CGA4J1X7R1H475K125AC	4,700,000	0.480	0.0031	0.106
CGA4J1X7R1V475K125AC	4,700,000	0.480	0.0032	0.106
CGA4J1X7R1V475M125AC	4,700,000	0.480	0.0032	0.106
CGA4J1X7R1E475K125AC	4,700,000	0.480	0.0031	0.106
CGA4J1X7R1E475M125AC	4,700,000	0.480	0.0031	0.106
CGA4J3X7R1C475K125AB	4,700,000	0.480	0.0031	0.106
CGA4J3X7R1C475M125AB	4,700,000	0.480	0.0031	0.106
CGA4J3X7R1A475K125AB	4,700,000	0.480	0.0031	0.106
CGA4J1X5R1C685K125AC	6,800,000	0.480	0.0024	0.0140

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Simple Model

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### Circuit Diagram



### Circuit Parameters

Part No.	C1[ $\mu$ F]	L1[nH]	R1[ohm]	R2[Gohm]
CGA4J1X5R1C685M125AC	6,800,000	0.480	0.0024	0.0140
CGA4J3X5R1A685K125AB	6,800,000	0.480	0.0024	0.0140
CGA4J3X5R1A685M125AB	6,800,000	0.480	0.0024	0.0140
CGA4J1X7R0J685K125AC	6,800,000	0.480	0.0025	0.0140
CGA4J1X7R0J685M125AC	6,800,000	0.480	0.0025	0.0140
CGA4J1X7S1C685K125AC	6,800,000	0.480	0.0028	0.0140
CGA4J1X7S1C685M125AC	6,800,000	0.480	0.0028	0.0140
CGA4J3X7S1A685K125AB	6,800,000	0.480	0.0031	0.0140
CGA4J3X7S1A685M125AB	6,800,000	0.480	0.0031	0.0140
CGA4J1X5R1C106K125AC	10,000,000	0.480	0.0014	0.0100
CGA4J1X5R1C106M125AC	10,000,000	0.480	0.0014	0.0100
CGA4J3X5R1A106K125AB	10,000,000	0.480	0.0014	0.0100
CGA4J3X5R1A106M125AB	10,000,000	0.480	0.0014	0.0100
CGA4J1X7R0J106K125AC	10,000,000	0.480	0.0015	0.0100
CGA4J1X7R0J106M125AC	10,000,000	0.480	0.0015	0.0100
CGA4J1X7S1E106K125AC	10,000,000	0.480	0.0020	0.0500
CGA4J1X7S1C106K125AC	10,000,000	0.480	0.0024	0.0100
CGA4J1X7S1C106M125AC	10,000,000	0.480	0.0024	0.0100
CGA4J3X7S1A106K125AB	10,000,000	0.480	0.0027	0.0100
CGA4J3X7S1A106M125AB	10,000,000	0.480	0.0027	0.0100
CGA4J1X7T0J226M125AC	22,000,000	0.480	0.0029	0.00400