

Multilayer Ceramic Chip Capacitors

May 23, 2024
Simple Model

Commercial Grade, General (Up to 75V) / C3216 series (1/6)

Circuit Diagram



Circuit Parameters

Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C3216C0G1H472J060AA	4,700	0.750	0.0364	10.0
C3216C0G1H472K060AA	4,700	0.750	0.0364	10.0
C3216C0G1H682J060AA	6,800	0.750	0.0299	10.0
C3216C0G1H682K060AA	6,800	0.750	0.0299	10.0
C3216C0G1H103J060AA	10,000	0.750	0.0236	10.0
C3216C0G1H103K060AA	10,000	0.750	0.0236	10.0
C3216C0G1H153J060AA	15,000	0.750	0.0199	10.0
C3216C0G1H153K060AA	15,000	0.750	0.0199	10.0
C3216C0G1H223J060AA	22,000	0.750	0.0151	10.0
C3216C0G1H223K060AA	22,000	0.750	0.0151	10.0
C3216C0G1H333J085AA	33,000	0.750	0.0166	10.0
C3216C0G1H333K085AA	33,000	0.750	0.0166	10.0
C3216C0G1H473J115AA	47,000	0.750	0.0104	10.0
C3216C0G1H473K115AA	47,000	0.750	0.0104	10.0
C3216C0G1H683J160AA	68,000	0.750	0.0088	7.35
C3216C0G1H683K160AA	68,000	0.750	0.0088	7.35
C3216C0G1H104J160AA	100,000	0.750	0.0060	5.00
C3216C0G1H104K160AA	100,000	0.750	0.0060	5.00
C3216X7R1H224K115AA	220,000	0.750	0.0183	2.27
C3216X7R1H224M115AA	220,000	0.750	0.0183	2.27
C3216X7R1H334K160AA	330,000	0.750	0.0127	1.52
C3216X7R1H334M160AA	330,000	0.750	0.0127	1.52
C3216X7R1H474K160AA	470,000	0.750	0.0095	1.06
C3216X7R1H474M160AA	470,000	0.750	0.0095	1.06
C3216X7R1H684K160AA	680,000	0.750	0.0092	0.735
C3216X7R1H684M160AA	680,000	0.750	0.0092	0.735
C3216X7R1E105K085AA	1,000,000	0.750	0.0092	0.500
C3216X7R1E105M085AA	1,000,000	0.750	0.0092	0.500
C3216X5R1H105K160AA	1,000,000	0.750	0.0090	0.500
C3216X5R1H105M160AA	1,000,000	0.750	0.0090	0.500
C3216X7R1H105K160AB	1,000,000	0.750	0.0090	0.500
C3216X7R1H105M160AB	1,000,000	0.750	0.0090	0.500
C3216X7R1E105K160AA	1,000,000	0.750	0.0092	0.500
C3216X7R1E105M160AA	1,000,000	0.750	0.0092	0.500
C3216X5R1H155K160AB	1,500,000	0.750	0.0076	0.333
C3216X5R1H155M160AB	1,500,000	0.750	0.0076	0.333

Multilayer Ceramic Chip Capacitors

May 23, 2024
Simple Model

Commercial Grade, General (Up to 75V) / C3216 series (2/6)

Circuit Diagram



Circuit Parameters

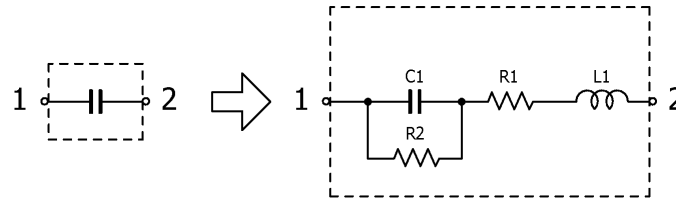
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C3216X5R1E155K160AA	1,500,000	0.750	0.0057	0.333
C3216X5R1E155M160AA	1,500,000	0.750	0.0057	0.333
C3216X6S1H155K160AB	1,500,000	0.750	0.0076	0.333
C3216X6S1H155M160AB	1,500,000	0.750	0.0076	0.333
C3216X6S1V155K160AB	1,500,000	0.750	0.0076	0.333
C3216X6S1V155M160AB	1,500,000	0.750	0.0076	0.333
C3216X7R1H155K160AB	1,500,000	0.750	0.0076	0.333
C3216X7R1H155M160AB	1,500,000	0.750	0.0076	0.333
C3216X7R1V155K160AB	1,500,000	0.750	0.0076	0.333
C3216X7R1V155M160AB	1,500,000	0.750	0.0076	0.333
C3216X7R1E155K160AA	1,500,000	0.750	0.0057	0.333
C3216X7R1E155M160AA	1,500,000	0.750	0.0057	0.333
C3216X5R1H225K160AB	2,200,000	0.750	0.0062	0.227
C3216X5R1H225M160AB	2,200,000	0.750	0.0062	0.227
C3216X5R1E225K160AA	2,200,000	0.750	0.0052	0.227
C3216X5R1E225M160AA	2,200,000	0.750	0.0052	0.227
C3216X6S1H225K160AB	2,200,000	0.750	0.0062	0.227
C3216X6S1H225M160AB	2,200,000	0.750	0.0062	0.227
C3216X6S1V225K160AB	2,200,000	0.750	0.0062	0.227
C3216X6S1V225M160AB	2,200,000	0.750	0.0062	0.227
C3216X7R1H225K160AB	2,200,000	0.750	0.0041	0.227
C3216X7R1H225M160AB	2,200,000	0.750	0.0062	0.227
C3216X7R1V225K160AB	2,200,000	0.750	0.0121	0.227
C3216X7R1V225M160AB	2,200,000	0.750	0.0062	0.227
C3216X7R1E225K160AA	2,200,000	0.750	0.0052	0.227
C3216X7R1E225M160AA	2,200,000	0.750	0.0052	0.227
C3216X5R1H335K160AB	3,300,000	0.750	0.0053	0.151
C3216X5R1H335M160AB	3,300,000	0.750	0.0053	0.151
C3216X5R1V335K160AB	3,300,000	0.750	0.0053	0.151
C3216X5R1V335M160AB	3,300,000	0.750	0.0053	0.151
C3216X5R1E335K160AA	3,300,000	0.750	0.0044	0.151
C3216X5R1E335M160AA	3,300,000	0.750	0.0044	0.151
C3216X6S1H335K160AB	3,300,000	0.750	0.0053	0.151
C3216X6S1H335M160AB	3,300,000	0.750	0.0053	0.151
C3216X6S1V335K160AB	3,300,000	0.750	0.0053	0.151
C3216X6S1V335M160AB	3,300,000	0.750	0.0053	0.151

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Simple Model

Commercial Grade, General (Up to 75V) / C3216 series (3/6)

Circuit Diagram



Circuit Parameters

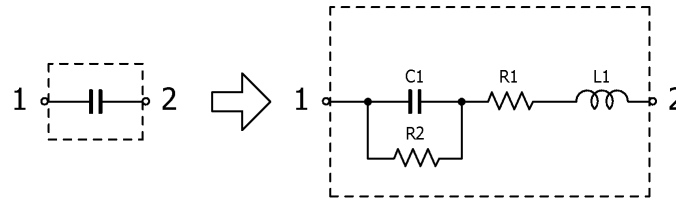
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C3216X7R1H335K160AC	3,300,000	0.750	0.0020	0.151
C3216X7R1H335M160AC	3,300,000	0.750	0.0020	0.151
C3216X7R1V335K160AB	3,300,000	0.750	0.0020	0.151
C3216X7R1V335M160AB	3,300,000	0.750	0.0020	0.151
C3216X7R1E335K160AC	3,300,000	0.750	0.0040	0.151
C3216X7R1E335M160AC	3,300,000	0.750	0.0040	0.151
C3216X5R1H475K085AB	4,700,000	0.750	0.0041	0.106
C3216X5R1H475M085AB	4,700,000	0.750	0.0041	0.106
C3216X5R1V475K085AB	4,700,000	0.750	0.0041	0.106
C3216X5R1V475M085AB	4,700,000	0.750	0.0041	0.106
C3216X5R1E475K085AB	4,700,000	0.750	0.0041	0.106
C3216X5R1E475M085AB	4,700,000	0.750	0.0041	0.106
C3216X6S1V475K085AC	4,700,000	0.750	0.0041	0.106
C3216X6S1V475M085AC	4,700,000	0.750	0.0041	0.106
C3216X6S1E475K085AB	4,700,000	0.750	0.0041	0.106
C3216X6S1E475M085AB	4,700,000	0.750	0.0041	0.106
C3216X7R1V475K085AC	4,700,000	0.750	0.0041	0.106
C3216X7R1V475M085AC	4,700,000	0.750	0.0041	0.106
C3216X7R1E475K085AB	4,700,000	0.750	0.0041	0.106
C3216X7R1E475M085AB	4,700,000	0.750	0.0041	0.106
C3216X7R1C475K085AB	4,700,000	0.750	0.0041	0.0210
C3216X7R1C475M085AB	4,700,000	0.750	0.0041	0.0210
C3216X5R1E475K115AB	4,700,000	0.750	0.0037	0.106
C3216X5R1E475M115AB	4,700,000	0.750	0.0037	0.106
C3216X5R1C475K115AA	4,700,000	0.750	0.0041	0.0210
C3216X5R1C475M115AA	4,700,000	0.750	0.0041	0.0210
C3216X5R1H475K160AB	4,700,000	0.750	0.0039	0.106
C3216X5R1H475M160AB	4,700,000	0.750	0.0039	0.106
C3216X5R1V475K160AB	4,700,000	0.750	0.0018	0.106
C3216X5R1V475M160AB	4,700,000	0.750	0.0018	0.106
C3216X5R1E475K160AA	4,700,000	0.750	0.0063	0.106
C3216X5R1E475M160AA	4,700,000	0.750	0.0063	0.106
C3216X6S1H475K160AB	4,700,000	0.750	0.0039	0.106
C3216X6S1H475M160AB	4,700,000	0.750	0.0039	0.106
C3216X6S1V475K160AB	4,700,000	0.750	0.0039	0.106
C3216X6S1V475M160AB	4,700,000	0.750	0.0039	0.106

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Simple Model

Commercial Grade, General (Up to 75V) / C3216 series (4/6)

Circuit Diagram



Circuit Parameters

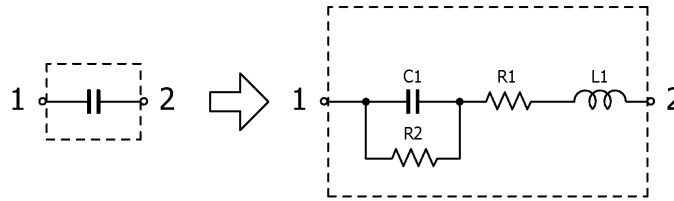
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C3216X6S1E475K160AB	4,700,000	0.750	0.0039	0.106
C3216X6S1E475M160AB	4,700,000	0.750	0.0039	0.106
C3216X7R1H475K160AC	4,700,000	0.750	0.0018	0.106
C3216X7R1H475M160AC	4,700,000	0.750	0.0018	0.106
C3216X7R1V475K160AB	4,700,000	0.750	0.0018	0.106
C3216X7R1V475M160AB	4,700,000	0.750	0.0018	0.106
C3216X7R1E475K160AC	4,700,000	0.750	0.0063	0.106
C3216X7R1E475M160AC	4,700,000	0.750	0.0063	0.106
C3216X7R1C475K160AB	4,700,000	0.750	0.0056	0.0210
C3216X7R1C475M160AB	4,700,000	0.750	0.0056	0.0210
C3216X6S1A685K085AB	6,800,000	0.750	0.0035	0.0140
C3216X6S1A685M085AB	6,800,000	0.750	0.0035	0.0140
C3216X5R1H685K160AB	6,800,000	0.750	0.0035	0.0730
C3216X5R1H685M160AB	6,800,000	0.750	0.0035	0.0730
C3216X5R1V685K160AB	6,800,000	0.750	0.0035	0.0730
C3216X5R1V685M160AB	6,800,000	0.750	0.0035	0.0730
C3216X5R1E685K160AB	6,800,000	0.750	0.0035	0.0730
C3216X5R1E685M160AB	6,800,000	0.750	0.0035	0.0730
C3216X5R1C685K160AA	6,800,000	0.750	0.0032	0.0140
C3216X5R1C685M160AA	6,800,000	0.750	0.0032	0.0140
C3216X6S1V685K160AC	6,800,000	0.750	0.0035	0.0730
C3216X6S1V685M160AC	6,800,000	0.750	0.0035	0.0730
C3216X6S1E685K160AB	6,800,000	0.750	0.0035	0.0730
C3216X6S1E685M160AB	6,800,000	0.750	0.0035	0.0730
C3216X6S1C685K160AC	6,800,000	0.750	0.0035	0.0140
C3216X6S1C685M160AC	6,800,000	0.750	0.0035	0.0140
C3216X7R1V685K160AC	6,800,000	0.750	0.0035	0.0730
C3216X7R1V685M160AC	6,800,000	0.750	0.0035	0.0730
C3216X7R1E685K160AB	6,800,000	0.750	0.0035	0.0730
C3216X7R1E685M160AB	6,800,000	0.750	0.0035	0.0730
C3216X7R1C685K160AC	6,800,000	0.750	0.0032	0.0140
C3216X7R1C685M160AC	6,800,000	0.750	0.0032	0.0140
C3216X5R1E106K085AC	10,000,000	0.750	0.0028	0.0100
C3216X5R1E106M085AC	10,000,000	0.750	0.0028	0.0100
C3216X6S1C106K085AC	10,000,000	0.750	0.0028	0.0100
C3216X6S1C106M085AC	10,000,000	0.750	0.0028	0.0100

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Commercial Grade, General (Up to 75V) / C3216 series (5/6)

Circuit Diagram



Circuit Parameters

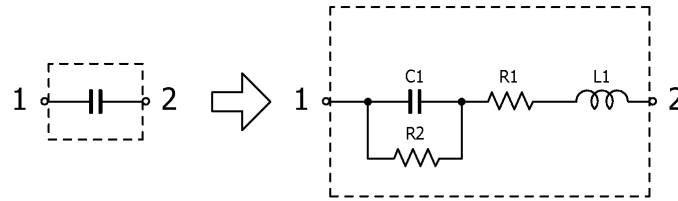
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C3216X6S1A106K085AB	10,000,000	0.750	0.0028	0.0100
C3216X6S1A106M085AB	10,000,000	0.750	0.0028	0.0100
C3216X7R1A106K085AC	10,000,000	0.750	0.0028	0.0100
C3216X7R1A106M085AC	10,000,000	0.750	0.0028	0.0100
C3216X7R0J106K085AB	10,000,000	0.750	0.0026	0.0100
C3216X7R0J106M085AB	10,000,000	0.750	0.0026	0.0100
C3216X5R1H106K160AB	10,000,000	0.750	0.0026	0.0500
C3216X5R1H106M160AB	10,000,000	0.750	0.0026	0.0500
C3216X5R1V106K160AB	10,000,000	0.750	0.0026	0.0500
C3216X5R1V106M160AB	10,000,000	0.750	0.0026	0.0500
C3216X5R1E106K160AB	10,000,000	0.750	0.0015	0.0500
C3216X5R1E106M160AB	10,000,000	0.750	0.0015	0.0500
C3216X5R1C106K160AA	10,000,000	0.750	0.0045	0.0100
C3216X5R1C106M160AA	10,000,000	0.750	0.0045	0.0100
C3216X6S1V106K160AC	10,000,000	0.750	0.0026	0.0500
C3216X6S1V106M160AC	10,000,000	0.750	0.0026	0.0500
C3216X6S1E106K160AB	10,000,000	0.750	0.0015	0.0500
C3216X6S1E106M160AB	10,000,000	0.750	0.0015	0.0500
C3216X6S1C106K160AB	10,000,000	0.750	0.0026	0.0100
C3216X6S1C106M160AB	10,000,000	0.750	0.0026	0.0100
C3216X6S0J106K160AC	10,000,000	0.750	0.0017	0.0100
C3216X6S0J106M160AC	10,000,000	0.750	0.0017	0.0100
C3216X7R1H106K160AC	10,000,000	0.750	0.0022	0.0500
C3216X7R1V106K160AC	10,000,000	0.750	0.0026	0.0500
C3216X7R1V106M160AC	10,000,000	0.750	0.0026	0.0500
C3216X7R1E106K160AB	10,000,000	0.750	0.0015	0.0500
C3216X7R1E106M160AB	10,000,000	0.750	0.0015	0.0500
C3216X7R1C106K160AC	10,000,000	0.750	0.0045	0.0100
C3216X7R1C106M160AC	10,000,000	0.750	0.0026	0.0100
C3216X7R1A106K160AC	10,000,000	0.750	0.0045	0.0100
C3216X7R1A106M160AC	10,000,000	0.750	0.0045	0.0100
C3216X5R1V156M160AC	15,000,000	0.750	0.0027	0.0330
C3216X5R1E156M160AB	15,000,000	0.750	0.0027	0.0330
C3216X5R1C156M160AB	15,000,000	0.750	0.0027	0.00600
C3216X6S1C156M160AC	15,000,000	0.750	0.0027	0.00600
C3216X6S1A156M160AB	15,000,000	0.750	0.0027	0.00600

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May 23, 2024
Simple Model

Commercial Grade, General (Up to 75V) / C3216 series (6/6)

Circuit Diagram



Circuit Parameters

Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
C3216X6S0J156M160AB	15,000,000	0.750	0.0027	0.00600
C3216X7S1A156M160AC	15,000,000	0.750	0.0027	0.00600
C3216X7S0J156M160AB	15,000,000	0.750	0.0027	0.00600
C3216X5R1V226M160AC	22,000,000	0.750	0.0022	0.0220
C3216X5R1E226M160AB	22,000,000	0.750	0.0022	0.0220
C3216X5R1C226M160AB	22,000,000	0.750	0.0022	0.00400
C3216X6S1E226M160AC	22,000,000	0.750	0.0023	0.0220
C3216X6S1C226M160AC	22,000,000	0.750	0.0022	0.00400
C3216X6S1A226M160AB	22,000,000	0.750	0.0022	0.00400
C3216X6S0J226M160AB	22,000,000	0.750	0.0029	0.00400
C3216X7S1A226M160AC	22,000,000	0.750	0.0022	0.00400
C3216X7S0J226M160AB	22,000,000	0.750	0.0022	0.00400
C3216X5R1E336M160AC	33,000,000	0.750	0.0025	0.00300
C3216X5R1C336M160AB	33,000,000	0.750	0.0025	0.00300
C3216X5R1A336M160AB	33,000,000	0.750	0.0025	0.00300
C3216X6S1A336M160AC	33,000,000	0.750	0.0025	0.00300
C3216X6S0J336M160AB	33,000,000	0.750	0.0025	0.00300
C3216X7S0J336M160AC	33,000,000	0.750	0.0025	0.00300
C3216X7S0G336M160AB	33,000,000	0.750	0.0025	0.00300
C3216X5R1E476M160AC	47,000,000	0.750	0.0017	0.00200
C3216X5R1C476M160AB	47,000,000	0.750	0.0017	0.00200
C3216X5R1A476M160AB	47,000,000	0.750	0.0017	0.00200
C3216X6S1A476M160AC	47,000,000	0.750	0.0017	0.00200
C3216X6S0J476M160AB	47,000,000	0.750	0.0017	0.00200
C3216X7S0J476M160AC	47,000,000	0.750	0.0017	0.00200
C3216X7S0G476M160AB	47,000,000	0.750	0.0017	0.00200
C3216X5R1A686M160AC	68,000,000	0.750	0.0017	0.00100
C3216X5R0J686M160AB	68,000,000	0.750	0.0017	0.00100
C3216X6S0G686M160AC	68,000,000	0.750	0.0017	0.00100
C3216X5R1A107M160AC	100,000,000	0.750	0.0017	0.00100
C3216X5R0J107M160AB	100,000,000	0.750	0.0017	0.00100
C3216X5R0G107M160AB	100,000,000	0.750	0.0017	0.00100
C3216X6S0G107M160AC	100,000,000	0.750	0.0017	0.00100