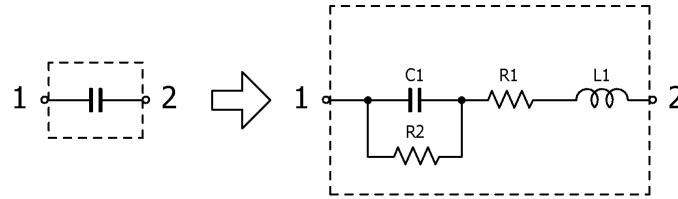


Multilayer Ceramic Chip Capacitors

June 29, 2015
Simple Model

Automotive Grade (Mid Voltage (100 to 630V)) / CGA5 series (1/4)

Circuit Diagram



Circuit Parameters

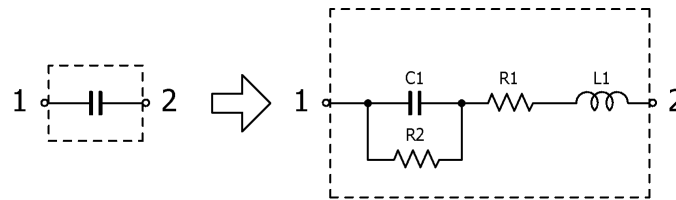
Part No.	C1[μ F]	L1[nH]	R1[ohm]	R2[Gohm]
CGA5C4C0G2J101J060AA	100	0.750	0.1405	10.0
CGA5C4C0G2J121J060AA	120	0.750	0.1458	10.0
CGA5C4C0G2J151J060AA	150	0.750	0.1139	10.0
CGA5C4C0G2J181J060AA	180	0.750	0.1072	10.0
CGA5C4C0G2J221J060AA	220	0.750	0.0856	10.0
CGA5C4C0G2J271J060AA	270	0.750	0.0825	10.0
CGA5C4C0G2J331J060AA	330	0.750	0.0807	10.0
CGA5C4C0G2J391J060AA	390	0.750	0.0937	10.0
CGA5F4C0G2J471J085AA	470	0.750	0.0832	10.0
CGA5F4C0G2J561J085AA	560	0.750	0.0640	10.0
CGA5F4C0G2J681J085AA	680	0.750	0.0564	10.0
CGA5F4C0G2J821J085AA	820	0.750	0.0519	10.0
CGA5F4C0G2J102J085AA	1,000	0.750	0.0594	10.0
CGA5F4C0G2J122J085AA	1,200	0.750	0.0443	10.0
CGA5H4C0G2J152J115AA	1,500	0.750	0.0377	10.0
CGA5H4C0G2J182J115AA	1,800	0.750	0.0331	10.0
CGA5H4C0G2J222J115AA	2,200	0.750	0.0315	10.0
CGA5L4C0G2J272J160AA	2,700	0.750	0.0276	10.0
CGA5L4C0G2J332J160AA	3,300	0.750	0.0260	10.0
CGA5F3C0G2E332J085AA	3,300	0.750	0.0315	10.0
CGA5F4C0G2J392J085AA	3,900	0.750	0.0298	10.0
CGA5H3C0G2E392J115AA	3,900	0.750	0.0256	10.0
CGA5C2C0G2A392J060AA	3,900	0.750	0.0231	10.0
CGA5F4C0G2J472J085AA	4,700	0.750	0.0222	10.0
CGA5H3C0G2E472J115AA	4,700	0.750	0.0257	10.0
CGA5F2C0G2A472J085AA	4,700	0.750	0.0331	10.0
CGA5H4C0G2J562J115AA	5,600	0.750	0.0276	10.0
CGA5H3C0G2E562J115AA	5,600	0.750	0.0191	10.0
CGA5F2C0G2A562J085AA	5,600	0.750	0.0270	10.0
CGA5H4C0G2J682J115AA	6,800	0.750	0.0149	10.0
CGA5H4C0G2W682J115AA	6,800	0.750	0.0149	10.0
CGA5L3C0G2E682J160AA	6,800	0.750	0.0227	10.0
CGA5H2C0G2A682J115AA	6,800	0.750	0.0221	10.0
CGA5L4C0G2J822J160AA	8,200	0.750	0.0146	10.0
CGA5H4C0G2W822J115AA	8,200	0.750	0.0148	10.0
CGA5L3C0G2E822J160AA	8,200	0.750	0.0176	10.0
CGA5H2C0G2A822J115AA	8,200	0.750	0.0169	10.0

Multilayer Ceramic Chip Capacitors

June 29, 2015
Simple Model

Automotive Grade (Mid Voltage (100 to 630V)) / CGA5 series (2/4)

Circuit Diagram



Circuit Parameters

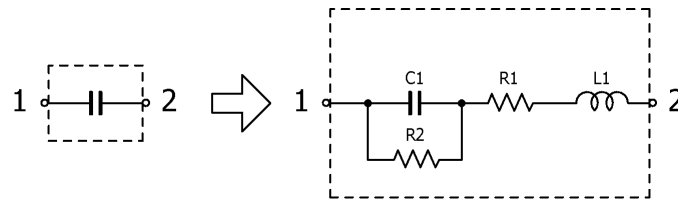
Part No.	C1[μ F]	L1[nH]	R1[ohm]	R2[Gohm]
CGA5L4C0G2J103J160AA	10,000	0.750	0.0150	10.0
CGA5L4C0G2W103J160AA	10,000	0.750	0.0150	10.0
CGA5H3C0G2E103J115AA	10,000	0.750	0.0128	10.0
CGA5H2C0G2A103J115AA	10,000	0.750	0.0135	10.0
CGA5L4C0G2W153J160AA	15,000	0.750	0.0099	10.0
CGA5L3C0G2E153J160AA	15,000	0.750	0.0099	10.0
CGA5H2C0G2A153J115AA	15,000	0.750	0.0105	10.0
CGA5L3C0G2E223J160AA	22,000	0.750	0.0102	10.0
CGA5L2C0G2A223J160AA	22,000	0.750	0.0117	10.0
CGA5L2C0G2A333J160AA	33,000	0.750	0.0098	10.0
CGA5H4X7R2J102K115AA	1,000	0.750	0.2568	10.0
CGA5H4X7R2J102M115AA	1,000	0.750	0.2568	10.0
CGA5H4X7R2J152K115AA	1,500	0.750	0.1766	10.0
CGA5H4X7R2J152M115AA	1,500	0.750	0.1766	10.0
CGA5H4X7R2J222K115AA	2,200	0.750	0.1504	10.0
CGA5H4X7R2J222M115AA	2,200	0.750	0.1504	10.0
CGA5H4X7R2J332K115AA	3,300	0.750	0.1414	10.0
CGA5H4X7R2J332M115AA	3,300	0.750	0.1414	10.0
CGA5H4X7R2J472K115AA	4,700	0.750	0.0959	10.0
CGA5H4X7R2J472M115AA	4,700	0.750	0.0959	10.0
CGA5H4X7R2J682K115AA	6,800	0.750	0.0743	10.0
CGA5H4X7R2J682M115AA	6,800	0.750	0.0743	10.0
CGA5H4X7R2J103K115AA	10,000	0.750	0.0920	10.0
CGA5H4X7R2J103M115AA	10,000	0.750	0.0920	10.0
CGA5K4X7R2J153K130AA	15,000	0.750	0.0690	10.0
CGA5K4X7R2J153M130AA	15,000	0.750	0.0690	10.0
CGA5H3X7R2E153K115AA	15,000	0.750	0.0862	10.0
CGA5H3X7R2E153M115AA	15,000	0.750	0.0673	10.0
CGA5K4X7R2J223K130AA	22,000	0.750	0.0555	10.0
CGA5K4X7R2J223M130AA	22,000	0.750	0.0555	10.0
CGA5H1X7T2J223K115AC	22,000	0.750	0.0350	10.0
CGA5H1X7T2J223M115AC	22,000	0.750	0.0350	10.0
CGA5H3X7R2E223K115AA	22,000	0.750	0.0613	10.0
CGA5H3X7R2E223M115AA	22,000	0.750	0.0613	10.0
CGA5L4X7R2J333K160AA	33,000	0.750	0.0406	10.0
CGA5L4X7R2J333M160AA	33,000	0.750	0.0406	10.0
CGA5H1X7T2J333K115AC	33,000	0.750	0.0292	10.0

Multilayer Ceramic Chip Capacitors

June 29, 2015
Simple Model

Automotive Grade (Mid Voltage (100 to 630V)) / CGA5 series (3/4)

Circuit Diagram



Circuit Parameters

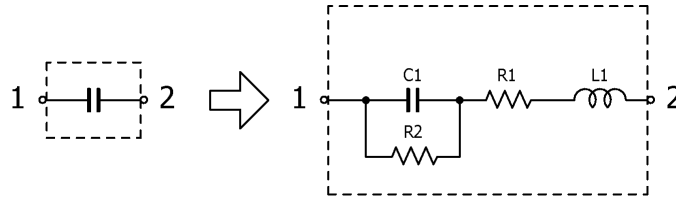
Part No.	C1[pF]	L1[nH]	R1[ohm]	R2[Gohm]
CGA5H1X7T2J333M115AC	33,000	0.750	0.0292	10.0
CGA5L3X7R2E333K160AA	33,000	0.750	0.0406	10.0
CGA5L3X7R2E333M160AA	33,000	0.750	0.0406	10.0
CGA5H2X7R2A333K115AA	33,000	0.750	0.0579	10.0
CGA5H2X7R2A333M115AA	33,000	0.750	0.0517	10.0
CGA5L1X7T2J473K160AC	47,000	0.750	0.0215	10.0
CGA5L1X7T2J473M160AC	47,000	0.750	0.0215	10.0
CGA5L3X7R2E473K160AA	47,000	0.750	0.0330	10.0
CGA5L3X7R2E473M160AA	47,000	0.750	0.0330	10.0
CGA5H2X7R2A473K115AA	47,000	0.750	0.0391	10.0
CGA5H2X7R2A473M115AA	47,000	0.750	0.0391	10.0
CGA5K4X7T2W683K130AA	68,000	0.750	0.0245	7.35
CGA5K4X7T2W683M130AA	68,000	0.750	0.0245	7.35
CGA5L3X7R2E683K160AA	68,000	0.750	0.0305	7.35
CGA5L3X7R2E683M160AA	68,000	0.750	0.0305	7.35
CGA5L2X7R2A683K160AA	68,000	0.750	0.0305	7.35
CGA5L2X7R2A683M160AA	68,000	0.750	0.0305	7.35
CGA5L4X7T2W104K160AA	100,000	0.750	0.0242	5.00
CGA5L4X7T2W104M160AA	100,000	0.750	0.0242	5.00
CGA5L3X7R2E104K160AA	100,000	0.750	0.0212	5.00
CGA5L3X7R2E104M160AA	100,000	0.750	0.0212	5.00
CGA5L2X7R2A104K160AA	100,000	0.750	0.0212	5.00
CGA5L2X7R2A104M160AA	100,000	0.750	0.0212	5.00
CGA5K3X7T2E154K130AA	150,000	0.750	0.0182	3.33
CGA5K3X7T2E154M130AA	150,000	0.750	0.0182	3.33
CGA5L2X7R2A154K160AA	150,000	0.750	0.0169	3.33
CGA5L2X7R2A154M160AA	150,000	0.750	0.0169	3.33
CGA5L3X7T2E224K160AA	220,000	0.750	0.0125	2.27
CGA5L3X7T2E224M160AA	220,000	0.750	0.0125	2.27
CGA5H2X7R2A224K115AA	220,000	0.750	0.0132	2.27
CGA5H2X7R2A224M115AA	220,000	0.750	0.0132	2.27
CGA5K2X7R2A334K130AA	330,000	0.750	0.0115	1.52
CGA5K2X7R2A334M130AA	330,000	0.750	0.0115	1.52
CGA5L2X7R2A474K160AA	470,000	0.750	0.0089	1.06
CGA5L2X7R2A474M160AA	470,000	0.750	0.0089	1.06
CGA5L2X7R2A684K160AA	680,000	0.750	0.0075	0.735
CGA5L2X7R2A684M160AA	680,000	0.750	0.0075	0.735

Multilayer Ceramic Chip Capacitors

June 29, 2015
Simple Model

Automotive Grade (Mid Voltage (100 to 630V)) / CGA5 series (4/4)

Circuit Diagram



Circuit Parameters

Part No.	C1[μ F]	L1[nH]	R1[ohm]	R2[Gohm]
CGA5L2X7R2A105K160AA	1,000,000	0.750	0.0057	0.500
CGA5L2X7R2A105M160AA	1,000,000	0.750	0.0057	0.500
CGA5L3X7S2A155K160AB	1,500,000	0.750	0.0066	0.333
CGA5L3X7S2A155M160AB	1,500,000	0.750	0.0066	0.333
CGA5L3X7S2A225K160AB	2,200,000	0.750	0.0071	0.227
CGA5L3X7S2A225M160AB	2,200,000	0.750	0.0071	0.227
CGA5L3X7S2A335K160AB	3,300,000	0.750	0.0045	0.151
CGA5L3X7S2A335M160AB	3,300,000	0.750	0.0045	0.151