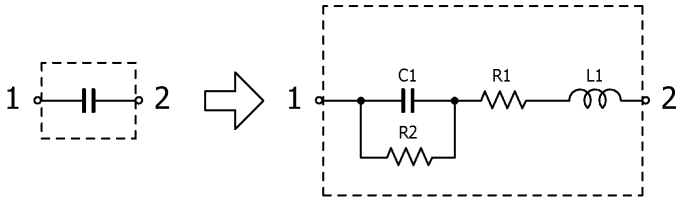
# TDK Equivalent Circuit Model Library

## Multilayer Ceramic Chip Capacitors

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

Feb. 27, 2026
Simple Model

### Circuit Diagram




### Circuit Parameters

| Part No. | C1[pF] | L1[nH] | R1[ohm] | R2[Gohm] |
|---|---|---|---|---|
| CGA5C2C0G2A392J060AA | 3,900 | 0.750 | 0.0231 | 10.0 |
| CGA5F2C0G2A472J085AA | 4,700 | 0.750 | 0.0331 | 10.0 |
| CGA5F2C0G2A562J085AA | 5,600 | 0.750 | 0.0270 | 10.0 |
| CGA5H2C0G2A682J115AA | 6,800 | 0.750 | 0.0221 | 10.0 |
| CGA5H2C0G2A822J115AA | 8,200 | 0.750 | 0.0169 | 10.0 |
| CGA5H2C0G2A103J115AA | 10,000 | 0.750 | 0.0135 | 10.0 |
| CGA5H2C0G2A153J115AA | 15,000 | 0.750 | 0.0105 | 10.0 |
| CGA5L2C0G2A223J160AA | 22,000 | 0.750 | 0.0117 | 10.0 |
| CGA5L2C0G2A333J160AA | 33,000 | 0.750 | 0.0098 | 10.0 |
| CGA5H1C0G2A473J115AC | 47,000 | 0.750 | 0.0085 | 10.0 |
| CGA5L1C0G2A683J160AC | 68,000 | 0.750 | 0.0080 | 7.35 |
| CGA5L1C0G2A104J160AC | 100,000 | 0.750 | 0.0079 | 5.00 |
| CGA5F3C0G2E332J085AA | 3,300 | 0.750 | 0.0315 | 10.0 |
| CGA5H3C0G2E392J115AA | 3,900 | 0.750 | 0.0256 | 10.0 |
| CGA5H3C0G2E472J115AA | 4,700 | 0.750 | 0.0257 | 10.0 |
| CGA5H3C0G2E562J115AA | 5,600 | 0.750 | 0.0191 | 10.0 |
| CGA5L3C0G2E682J160AA | 6,800 | 0.750 | 0.0227 | 10.0 |
| CGA5L3C0G2E822J160AA | 8,200 | 0.750 | 0.0176 | 10.0 |
| CGA5H3C0G2E103J115AA | 10,000 | 0.750 | 0.0128 | 10.0 |
| CGA5L3C0G2E153J160AA | 15,000 | 0.750 | 0.0099 | 10.0 |
| CGA5L3C0G2E223J160AA | 22,000 | 0.750 | 0.0102 | 10.0 |
| CGA5H4C0G2W682J115AA | 6,800 | 0.750 | 0.0149 | 10.0 |
| CGA5H4C0G2W822J115AA | 8,200 | 0.750 | 0.0148 | 10.0 |
| CGA5L4C0G2W103J160AA | 10,000 | 0.750 | 0.0150 | 10.0 |
| CGA5L4C0G2W153J160AA | 15,000 | 0.750 | 0.0099 | 10.0 |
| CGA5C4C0G2J101G060AA | 100 | 0.750 | 0.1405 | 10.0 |
| CGA5C4C0G2J101J060AA | 100 | 0.750 | 0.1405 | 10.0 |
| CGA5C4C0G2J151G060AA | 150 | 0.750 | 0.1139 | 10.0 |
| CGA5C4C0G2J151J060AA | 150 | 0.750 | 0.1139 | 10.0 |
| CGA5C4C0G2J221G060AA | 220 | 0.750 | 0.0856 | 10.0 |
| CGA5C4C0G2J221J060AA | 220 | 0.750 | 0.0856 | 10.0 |
| CGA5C4C0G2J331G060AA | 330 | 0.750 | 0.0807 | 10.0 |
| CGA5C4C0G2J331J060AA | 330 | 0.750 | 0.0807 | 10.0 |
| CGA5F4C0G2J471G085AA | 470 | 0.750 | 0.0832 | 10.0 |
| CGA5F4C0G2J471J085AA | 470 | 0.750 | 0.0832 | 10.0 |
| CGA5F4C0G2J681G085AA | 680 | 0.750 | 0.0564 | 10.0 |

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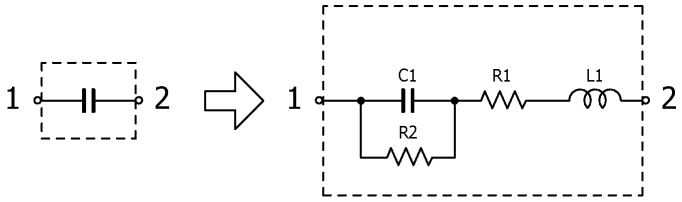
# TDK Equivalent Circuit Model Library

## Multilayer Ceramic Chip Capacitors

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

Feb. 27, 2026
Simple Model

### Circuit Diagram




### Circuit Parameters

| Part No. | C1[pF] | L1[nH] | R1[ohm] | R2[Gohm] |
|---|---|---|---|---|
| CGA5F4C0G2J681J085AA | 680 | 0.750 | 0.0564 | 10.0 |
| CGA5F4C0G2J102G085AA | 1,000 | 0.750 | 0.0594 | 10.0 |
| CGA5F4C0G2J102J085AA | 1,000 | 0.750 | 0.0594 | 10.0 |
| CGA5F4C0G2J122G085AA | 1,200 | 0.750 | 0.0443 | 10.0 |
| CGA5F4C0G2J122J085AA | 1,200 | 0.750 | 0.0443 | 10.0 |
| CGA5H4C0G2J152G115AA | 1,500 | 0.750 | 0.0377 | 10.0 |
| CGA5H4C0G2J152J115AA | 1,500 | 0.750 | 0.0377 | 10.0 |
| CGA5H4C0G2J182G115AA | 1,800 | 0.750 | 0.0331 | 10.0 |
| CGA5H4C0G2J182J115AA | 1,800 | 0.750 | 0.0331 | 10.0 |
| CGA5H4C0G2J222G115AA | 2,200 | 0.750 | 0.0315 | 10.0 |
| CGA5H4C0G2J222J115AA | 2,200 | 0.750 | 0.0315 | 10.0 |
| CGA5L4C0G2J272G160AA | 2,700 | 0.750 | 0.0276 | 10.0 |
| CGA5L4C0G2J272J160AA | 2,700 | 0.750 | 0.0276 | 10.0 |
| CGA5L4C0G2J332G160AA | 3,300 | 0.750 | 0.0260 | 10.0 |
| CGA5L4C0G2J332J160AA | 3,300 | 0.750 | 0.0260 | 10.0 |
| CGA5F4C0G2J392G085AA | 3,900 | 0.750 | 0.0298 | 10.0 |
| CGA5F4C0G2J392J085AA | 3,900 | 0.750 | 0.0298 | 10.0 |
| CGA5F4C0G2J472G085AA | 4,700 | 0.750 | 0.0222 | 10.0 |
| CGA5F4C0G2J472J085AA | 4,700 | 0.750 | 0.0222 | 10.0 |
| CGA5H4C0G2J562G115AA | 5,600 | 0.750 | 0.0276 | 10.0 |
| CGA5H4C0G2J562J115AA | 5,600 | 0.750 | 0.0276 | 10.0 |
| CGA5H4C0G2J682G115AA | 6,800 | 0.750 | 0.0149 | 10.0 |
| CGA5H4C0G2J682J115AA | 6,800 | 0.750 | 0.0149 | 10.0 |
| CGA5L4C0G2J822G160AA | 8,200 | 0.750 | 0.0146 | 10.0 |
| CGA5L4C0G2J822J160AA | 8,200 | 0.750 | 0.0146 | 10.0 |
| CGA5L4C0G2J103G160AA | 10,000 | 0.750 | 0.0150 | 10.0 |
| CGA5L4C0G2J103J160AA | 10,000 | 0.750 | 0.0150 | 10.0 |
| CGA5H2X7R2A333K115AA | 33,000 | 0.750 | 0.0579 | 10.0 |
| CGA5H2X7R2A333M115AA | 33,000 | 0.750 | 0.0517 | 10.0 |
| CGA5H2X7R2A473K115AA | 47,000 | 0.750 | 0.0391 | 10.0 |
| CGA5H2X7R2A473M115AA | 47,000 | 0.750 | 0.0391 | 10.0 |
| CGA5L2X7R2A683K160AA | 68,000 | 0.750 | 0.0305 | 7.35 |
| CGA5L2X7R2A683M160AA | 68,000 | 0.750 | 0.0305 | 7.35 |
| CGA5L2X7R2A104K160AA | 100,000 | 0.750 | 0.0212 | 5.00 |
| CGA5L2X7R2A104M160AA | 100,000 | 0.750 | 0.0212 | 5.00 |
| CGA5L2X7R2A154K160AA | 150,000 | 0.750 | 0.0169 | 3.33 |

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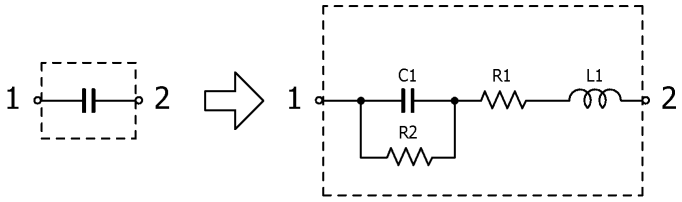
Automotive Grade Mid Voltage (100 to 630V) / CGA5 series (3/4)

Feb. 27, 2026
Simple Model

### Circuit Diagram




### Circuit Parameters

| Part No. | C1[pF] | L1[nH] | R1[ohm] | R2[Gohm] |
|---|---|---|---|---|
| CGA5L2X7R2A154M160AA | 150,000 | 0.750 | 0.0169 | 3.33 |
| 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 |
| CGA5L2X7R2A105K160AA | 1,000,000 | 0.750 | 0.0057 | 0.500 |
| CGA5L2X7R2A105M160AA | 1,000,000 | 0.750 | 0.0057 | 0.500 |
| CGA5L1X7R2A475K160AC | 4,700,000 | 0.750 | 0.0033 | 0.0210 |
| CGA5H3X7R2E153K115AA | 15,000 | 0.750 | 0.0862 | 10.0 |
| CGA5H3X7R2E153M115AA | 15,000 | 0.750 | 0.0673 | 10.0 |
| CGA5H3X7R2E223K115AA | 22,000 | 0.750 | 0.0613 | 10.0 |
| CGA5H3X7R2E223M115AA | 22,000 | 0.750 | 0.0613 | 10.0 |
| CGA5L3X7R2E333K160AA | 33,000 | 0.750 | 0.0406 | 10.0 |
| CGA5L3X7R2E333M160AA | 33,000 | 0.750 | 0.0406 | 10.0 |
| CGA5L3X7R2E473K160AA | 47,000 | 0.750 | 0.0330 | 10.0 |
| CGA5L3X7R2E473M160AA | 47,000 | 0.750 | 0.0330 | 10.0 |
| CGA5L3X7R2E683K160AA | 68,000 | 0.750 | 0.0305 | 7.35 |
| CGA5L3X7R2E683M160AA | 68,000 | 0.750 | 0.0305 | 7.35 |
| CGA5L3X7R2E104K160AA | 100,000 | 0.750 | 0.0212 | 5.00 |
| CGA5L3X7R2E104M160AA | 100,000 | 0.750 | 0.0212 | 5.00 |
| 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 |

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## Multilayer Ceramic Chip Capacitors

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

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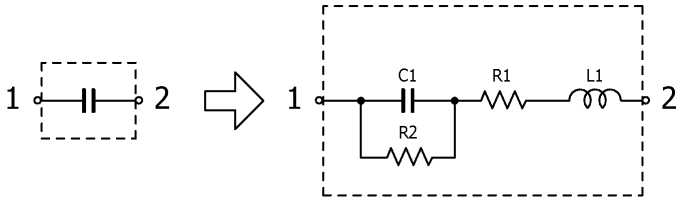
Simple Model

### Circuit Diagram




### Circuit Parameters

| Part No. | C1[pF] | L1[nH] | R1[ohm] | R2[Gohm] |
|---|---|---|---|---|
| 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 |
| CGA5K4X7R2J223K130AA | 22,000 | 0.750 | 0.0555 | 10.0 |
| CGA5K4X7R2J223M130AA | 22,000 | 0.750 | 0.0555 | 10.0 |
| CGA5L4X7R2J333K160AA | 33,000 | 0.750 | 0.0406 | 10.0 |
| CGA5L4X7R2J333M160AA | 33,000 | 0.750 | 0.0406 | 10.0 |
| 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 |
| CGA5K3X7T2E154K130AA | 150,000 | 0.750 | 0.0182 | 3.33 |
| CGA5K3X7T2E154M130AA | 150,000 | 0.750 | 0.0182 | 3.33 |
| CGA5L3X7T2E224K160AA | 220,000 | 0.750 | 0.0125 | 2.27 |
| CGA5L3X7T2E224M160AA | 220,000 | 0.750 | 0.0125 | 2.27 |
| CGA5K4X7T2W683K130AA | 68,000 | 0.750 | 0.0245 | 7.35 |
| CGA5K4X7T2W683M130AA | 68,000 | 0.750 | 0.0245 | 7.35 |
| CGA5L4X7T2W104K160AA | 100,000 | 0.750 | 0.0242 | 5.00 |
| CGA5L4X7T2W104M160AA | 100,000 | 0.750 | 0.0242 | 5.00 |
| CGA5H1X7T2J223K115AC | 22,000 | 0.750 | 0.0350 | 10.0 |
| CGA5H1X7T2J223M115AC | 22,000 | 0.750 | 0.0350 | 10.0 |
| CGA5H1X7T2J333K115AC | 33,000 | 0.750 | 0.0292 | 10.0 |
| CGA5H1X7T2J333M115AC | 33,000 | 0.750 | 0.0292 | 10.0 |
| CGA5L1X7T2J473K160AC | 47,000 | 0.750 | 0.0215 | 10.0 |
| CGA5L1X7T2J473M160AC | 47,000 | 0.750 | 0.0215 | 10.0 |

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