

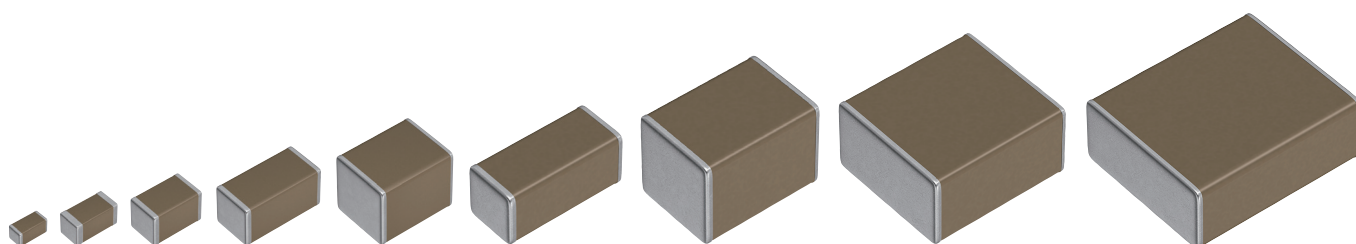
积层贴片陶瓷片式电容器

车载等级、树脂电极品

CGA系列

CGA2	1005 [0402 inch]
CGA3	1608 [0603 inch]
CGA4	2012 [0805 inch]
CGA5	3216 [1206 inch]
CGA6	3225 [1210 inch]
CGA7	4520 [1808 inch]
CGA8	4532 [1812 inch]
CGA9	5750 [2220 inch]
CGAD	7563 [3025 inch]

* 表示尺寸代码。JIS[EIA]



使用注意事项

在使用本产品前，请务必随附采购规格书。

安全注意事项

使用本产品时，请注意安全事项。

注意

1. 本目录中的产品，被装载到汽车上或车载产品，按照本目录中记载的范围、条件，可使用在汽车标准用途中。另外，包含本产品的该汽车或车用产品，应以通常的操作、使用方法来运用。

汽车以外、对于需要高度安全性和可靠性的，或者设备的故障，误动作，运转不良可能会给人的生命，身体及财产等造成损害，以及有可能产生莫大社会影响的以下用途（以下称‘特定用途’）中的适用性，性能发挥，品质，本公司不予保证。

因用于超过本目录所规定的范围、条件，或用于其他特定用途而产生损失、伤害等情况，我司恕不承担责任，请谅解。客户预定在本产品目录的范围、条件之外，或者在特定用途中使用，请事先咨询本公司相关部门。本公司会配合客户需求，一起协商不同于本产品目录中所记载的使用用途。

- | | |
|----------------------------|--------------------|
| (1) 航空，航天设备 | (7) 交通工具控制设备 |
| (2) 运输设备（电车，船舶等） | (8) 公共性的高度信息处理设备 |
| (3) 医疗设备（除《药事法》分类中的Ⅰ、Ⅱ级以外） | (9) 军用设备 |
| (4) 发电控制设备 | (10) 电热用品，燃烧设备 |
| (5) 核动力相关设备 | (11) 防灾防盗设备 |
| (6) 海底设备 | (12) 各种安全装置 |
| | (13) 其他被认定为特定用途的用途 |

此外，在对使用本产品的设备进行设计时，请根据该设备的使用用途及状态确保保护电路及装置，并设置备份电路。

2. 本产品目录中记载的产品因改良及其他原因可能在不经预告的情况下进行变更或停止供应。
3. 关于本产品目录中记载的产品，本公司备有记载了各产品的规格及安全注意事项的“交货规格书”。在选用产品时，建议签定交货规格书。
4. 在出口本产品目录中记载的产品时，有时会被归为“外汇及外贸管理法”中规定的管制货物等。在这种情况下，需要有依据该法规定的出口许可。
5. 关于本产品目录的内容，未经本公司许可不得擅自转载或复制。
6. 因使用本产品目录中记载的产品而发生涉及本公司或第三者的知识产权及其他权利的问题时，本公司对此将不承担责任。并且，本公司不对该等权利的実施权办理许可。
7. 本产品目录适用于从本公司或本公司的正规代理商购买的产品。从其他第三者购买的产品不在适用范围之内。

注意： 伴随网站的更新，由于系统限制的原因以及统一产品目录型号的需要，从2013年1月开始，TDK将在产品目录中使用新型号。新目录型号将在以后所有根据产品目录订货时使用，但不适用于OEM订购。目录型号的最后5位数与产品标签上的交货型号（内部控制编号）不同，请注意。详细信息请联系当地TDK销售代表。

（例）

产品目录发行日期	目录型号	交货型号（交货标签上的标识）
2012年12月以前	C1608C0G1E103J(080AA)	C1608C0G1E103JT000N
2013年1月及以后	C1608C0G1E103J080AA	C1608C0G1E103JT000N

⚠ 为了能够更加正确，安全地使用产品，请务必索取能进一步确认详细特性，规格的采购规格书。记载内容可能因为产品改良等原因不经预告而更改，恕不另行通知。

CGA系列

树脂电极品



Type: CGA2/1005 [0402 inch]、CGA3/1608 [0603 inch]、CGA4/2012 [0805 inch]、
CGA5/3216 [1206 inch]、CGA6/3225 [1210 inch]、CGA7/4520 [1808 inch]、
CGA8/4532 [1812 inch]、CGA9/5750 [2220 inch]、CGAD/7563 [3025 inch]

系列概要

车载级树脂电极 CGA系列是在端子电极中加入导电树脂层的产品。
树脂层通过释放由热冲击和基板挠曲引起的应力来保护陶瓷体免受裂纹。

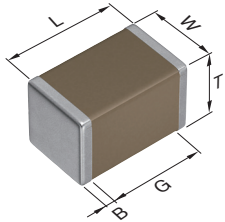
特点

- 树脂电极结构拥有优异的机械应力和耐热冲击性
- 拥有可在最高 150°C 环境下使用的X8R/X8L系列
- 拥有稳定的温度特性和DC偏压特性的C0G系列
- Qualified based on AEC-Q200
- Qualified based on VW80808-2 (Qualification of MLCCs with Soft Termination) *Rated voltage is 100V or less

用途

- 电池线用安全设计
- 工程内基板弯曲对策品
- 因热冲击所造成的焊接裂纹对应品
- 移动设备、智能钥匙等掉落可能性高的物品

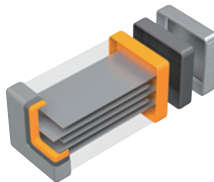
形状与尺寸



L	主体长度
W	主体宽度
T	主体高度
B	端子宽度
G	端子间距

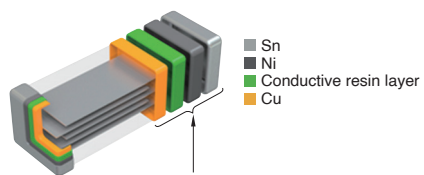
端子电极结构

一般品



Cu, Ni, Sn 的 3 层结构

树脂电极品



4 层结构，包括导电树脂层

Dimensions in mm

Type	L	W	T	B	G
CGA2	1.00+0.15,-0.05	0.50+0.10,-0.05	0.50+0.10,-0.05	0.10 min.	0.30 min.
CGA3	1.60+0.20,-0.10	0.80+0.15,-0.10	0.80+0.15,-0.10	0.20 min.	0.30 min.
CGA4	2.00+0.45,-0.20	1.25+0.25,-0.20	1.25+0.25,-0.20	0.20 min.	0.50 min.
CGA5	3.20+0.40,-0.20	1.60+0.30,-0.20	1.60+0.30,-0.20	0.20 min.	1.00 min.
CGA6	3.20+0.50,-0.40	2.50±0.30	2.50±0.30	0.20 min.	—
CGA7	4.50+0.50,-0.40	2.00+0.30,-0.20	1.30±0.20	0.20 min.	—
CGA8	4.50+0.50,-0.40	3.20±0.40	2.50±0.30	0.20 min.	—
CGA9	5.70+0.50,-0.40	5.00±0.40	2.50±0.30	0.20 min.	—
CGAD	7.50±0.50	6.30±0.50	2.50 max.	0.30 min.	—

* 尺寸公差是代表价值。

MULTILAYER CERAMIC CHIP CAPACITORS



■ 目录型号的识别法

CGA	4	J	1	X7R	0J	106	K	125	A	E
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

(1) 系列名称

(2) 尺寸 L x W (mm)

代码	EIA	长度	宽度	端子宽度
2	CC0402	1.00	0.50	0.10
3	CC0603	1.60	0.80	0.20
4	CC0805	2.00	1.25	0.20
5	CC1206	3.20	1.60	0.20
6	CC1210	3.20	2.50	0.20
7	CC1808	4.50	2.00	0.20
8	CC1812	4.50	3.20	0.20
9	CC2220	5.70	5.00	0.20
D	CC3025	7.50	6.30	0.30

(3) 厚度代码

代码	产品厚度
B	0.50 mm
C	0.60 mm
E	0.80 mm
F	0.85 mm
H	1.15 mm
J	1.25 mm
K	1.30 mm
L	1.60 mm
M	2.00 mm
N	2.30 mm
P	2.50 mm

(4) 寿命试验的电压条件

代码	条件
1	1 x R.V.
2	2 x R.V.
3	1.5 x R.V.
4	1.2 x R.V.

(5) 温度特性

温度特性	温度系数或电容变化率	温度范围
C0G	0±30 ppm/°C	-55 to +125°C
X7R	±15%	-55 to +125°C
X7S	±22%	-55 to +125°C
X7T	+22, -33%	-55 to +125°C
X8R	±15%	-55 to +125°C
X8L	+15, -40%	-55 to +125°C

(6) 额定电压(DC)

代码	电压 (DC)
0J	6.3V
1A	10V
1C	16V
1E	25V
1V	35V
1H	50V
2A	100V
2E	250V
2W	450V
2J	630V
3A	1000V
3D	2000V
3F	3000V

(7) 标称电容(pF)

容量以pF(微微法拉)为单位,并用三个文字表示。最初两个文字表示电容的第一位和第二位有效数字。第三个文字表示接在有效数字后的零的个数。含有小数点时用R表示。

(例) 0R5 = 0.5pF
101 = 100pF
225 = 2,200,000pF = 2.2μF

(8) 电容容差

代码	容差
J	±5%
K	±10%
M	±20%

(9) 厚度

代码	产品厚度
050	0.50 mm
060	0.60 mm
080	0.80 mm
085	0.85 mm
115	1.15 mm
125	1.25 mm
130	1.30 mm
160	1.60 mm
200	2.00 mm
230	2.30 mm
250	2.50 mm

(10) 包装形式

代码	形式
A	178mm 卷筒,4mm 间距
B	178mm 卷筒,2mm 间距
K	178mm 卷筒,8mm 间距
L	330mm 卷筒,12mm 间距

(11) 特殊指定代码

代码	内容
E	树脂电极品

电容范围图

CGA2/1005 [0402 inch]

电容		COG		X7R				X7S		X8R			
(pF)	代码	2A (100V)	1H (50V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1C (16V)	1A (10V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)
100	101												
150	151												
220	221												
330	331												
470	471												
680	681												
1,000	102												
1,500	152												
2,200	222												
3,300	332												
4,700	472												
6,800	682												
10,000	103												
15,000	153												
22,000	223												
33,000	333												
47,000	473												
100,000	104												
220,000	224												
470,000	474												

标准厚度 0.50 mm

灰色涂层的品名为不推荐用于新设计中的产品。

关于产品厚度，静电容量公差等详细信息，请参照P-11以后的静电容量范围表。

为了能够更加正确，安全地使用产品，请务必索取能进一步确认详细特性，规格的采购规格书。
记载内容可能因为产品改良等原因不经预告而更改，恕不另行通知。

电容范围图

CGA3/1608 [0603 inch]

电容		COG			X7R				X7S			X8R			
(pF)	代码	2E (250V)	2A (100V)	1H (50V)	2A (100V)	1H (50V)	1V (35V)	1E (25V)	2A (100V)	1C (16V)	1A (10V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)
100	101														
330	331														
470	471														
680	681														
1,000	102														
1,200	122														
1,500	152														
1,800	182														
2,200	222														
2,700	272														
3,300	332														
3,900	392														
4,700	472														
5,600	562														
6,800	682														
8,200	822														
10,000	103														
15,000	153														
22,000	223														
33,000	333														
47,000	473														
68,000	683														
100,000	104														
150,000	154														
220,000	224														
330,000	334														
470,000	474														
1,000,000	105														
2,200,000	225														

标准厚度 0.80 mm

灰色涂层的品名为不推荐用于新设计中的产品。

关于产品厚度，静电容量公差等详细信息，请参照P-11以后的静电容量范围表。

电容范围图

CGA4/2012 [0805 inch]

电容		COG				X7R								X7S			
(pF)	代码	2W (450V)	2E (250V)	2A (100V)	1H (50V)	2E (250V)	2A (100V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	0J (6.3V)	2A (100V)	1E (25V)	1C (16V)	1A (10V)	
100	101																
150	151																
220	221																
330	331																
470	471																
680	681																
1,000	102																
1,200	122																
1,500	152																
1,800	182																
2,200	222																
2,700	272																
3,300	332																
3,900	392																
4,700	472																
5,600	562																
6,800	682																
10,000	103																
15,000	153																
22,000	223																
33,000	333																
47,000	473																
100,000	104																
220,000	224																
470,000	474																
1,000,000	105																
2,200,000	225																
4,700,000	475																
10,000,000	106																

电容		X7T		X8R				X8L			
(pF)	代码	2W (450V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)	1H (50V)	1V (35V)	1E (25V)	1A (10V)
10,000	103										
22,000	223										
33,000	333										
47,000	473										
68,000	683										
100,000	104										
150,000	154										
220,000	224										
330,000	334										
470,000	474										
680,000	684										
1,000,000	105										
2,200,000	225										
4,700,000	475										
10,000,000	106										

标准厚度 0.60 mm 0.85 mm 1.25 mm

灰色涂层的品名为不推荐用于新设计中的产品。

■关于产品厚度、静电容量公差等详细信息，请参照P-11以后的静电容量范围表。

电容范围图

CGA5/3216 [1206 inch]

电容		C0G					X7R							X7S
(pF)	代码	2J (630V)	2W (450V)	2E (250V)	2A (100V)	1H (50V)	2J (630V)	2E (250V)	2A (100V)	1H (50V)	1V (35V)	1E (25V)	0J (6.3V)	2A (100V)
1,000	102													
2,200	222													
3,300	332													
3,900	392													
4,700	472													
5,600	562													
6,800	682													
8,200	822													
10,000	103													
15,000	153													
22,000	223													
33,000	333													
47,000	473													
68,000	683													
100,000	104													
220,000	224													
470,000	474													
1,000,000	105													
2,200,000	225													
4,700,000	475													
10,000,000	106													
22,000,000	226													

电容		X7T			X8R				X8L
(pF)	代码	2J (630V)	2W (450V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)	1E (25V)
47,000	473								
100,000	104								
150,000	154								
220,000	224								
330,000	334								
470,000	474								
680,000	684								
1,000,000	105								
1,500,000	155								
2,200,000	225								
3,300,000	335								
4,700,000	475								
10,000,000	106								

标准厚度 0.85 mm 1.15 mm 1.30 mm 1.60 mm

关于产品厚度，静电容量公差等详细信息，请参照P-11以后的静电容量范围表。

电容范围图

CGA6/3225 [1210 inch]

电容		COG					X7R					X7S		X7T		
(pF)	代码	3A (1kV)	2J (630V)	2W (450V)	2E (250V)	2A (100V)	2J (630V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	2A (100V)	1H (50V)	2J (630V)	2W (450V)	2E (250V)
1,000	102															
1,200	122															
1,500	152															
1,800	182															
2,200	222															
2,700	272															
3,300	332															
3,900	392															
4,700	472															
5,600	562															
6,800	682															
8,200	822															
15,000	153															
22,000	223															
33,000	333															
47,000	473															
68,000	683															
100,000	104															
150,000	154															
220,000	224															
330,000	334															
470,000	474															
1,000,000	105															
2,200,000	225															
3,300,000	335															
4,700,000	475															
10,000,000	106															
22,000,000	226															

电容		X8R		
(pF)	代码	2A (100V)	1E (25V)	1C (16V)
470,000	474			
680,000	684			
3,300,000	335			
4,700,000	475			
10,000,000	106			

标准厚度  1.60 mm  2.00 mm  2.30 mm  2.50 mm

■关于产品厚度，静电容量公差等详细信息，请参照P-11以后的静电容量范围表。

电容范围图

CGA7/4520 [1808 inch]

电容		X7R
(pF)	代码	3D (2kV)
1,000	102	

标准厚度  1.30 mm

■关于产品厚度，静电容量公差等详细信息，请参照P-11以后的静电容量范围表。

电容范围图

CGA8/4532 [1812 inch]

电容		COG			X7R		X7T		
(pF)	代码	3F (3kV)	2J (630V)	3D (2kV)	2J (630V)	2E (250V)	2J (630V)	2W (450V)	2E (250V)
330	331								
2,200	222								
33,000	333								
100,000	104								
220,000	224								
470,000	474								
1,000,000	105								

标准厚度  1.30 mm  2.00 mm  2.30 mm  2.50 mm

■关于产品厚度，静电容量公差等详细信息，请参照P-11以后的静电容量范围表。

电容范围图

CGA9/5750 [2220 inch]

电容		COG			X7R		X7S	X7T		
(pF)	代码	2J (630V)	2E (250V)	2A (100V)	2J (630V)	2E (250V)	2A (100V)	2J (630V)	2W (450V)	2E (250V)
68,000	683									
150,000	154									
220,000	224									
470,000	474									
1,000,000	105									
2,200,000	225									
10,000,000	106									

标准厚度  2.30 mm  2.50 mm

■关于产品厚度，静电容量公差等详细信息，请参照P-11以后的静电容量范围表。

电容范围图

CGAD/7563 [3025 inch]

电容		X7R
(pF)	代码	1E (25V)
47,000,000	476	

标准厚度  2.30 mm

■关于产品厚度，静电容量公差等详细信息，请参照P-11以后的静电容量范围表。

MULTILAYER CERAMIC CHIP CAPACITORS



电容范围表

温度特性: COG (-55 to +125 °C ,0±30ppm/ °C)

电容	尺寸	厚度 (mm)	电容容差	目录型号			
				额定电压 Edc: 3kV	额定电压 Edc: 1kV	额定电压 Edc: 630V	额定电压 Edc: 450V
100pF	2012	0.60±0.15	±5%				CGA4C4C0G2W101J060AE
150pF	2012	0.60±0.15	±5%				CGA4C4C0G2W151J060AE
220pF	2012	0.60±0.15	±5%				CGA4C4C0G2W221J060AE
330pF	2012	0.60±0.15	±5%				CGA4C4C0G2W331J060AE
470pF	4532	2.50±0.30	±10%	CGA8P1C0G3F331K250KE			
680pF	2012	0.60±0.15	±5%				CGA4C4C0G2W471J060AE
	2012	0.60±0.15	±5%				CGA4C4C0G2W681J060AE
	2012	0.60±0.15	±5%				CGA4C4C0G2W102J060AE
1nF	3225	2.00+0.30,-0.20	±2%		CGA6M1C0G3A102G200AE		
			±5%		CGA6M1C0G3A102J200AE		
	2012	0.60±0.15	±5%				CGA4C4C0G2W122J060AE
1.2nF	3225	2.00+0.30,-0.20	±2%		CGA6M1C0G3A122G200AE		
			±5%		CGA6M1C0G3A122J200AE		
	2012	0.85±0.15	±5%				CGA4F4C0G2W152J085AE
1.5nF	3225	2.00+0.30,-0.20	±2%		CGA6M1C0G3A152G200AE		
			±5%		CGA6M1C0G3A152J200AE		
	2012	0.85±0.15	±5%				CGA4F4C0G2W182J085AE
1.8nF	3225	2.00+0.30,-0.20	±2%		CGA6M1C0G3A182G200AE		
			±5%		CGA6M1C0G3A182J200AE		
	2012	0.85±0.15	±5%				CGA4F4C0G2W222J085AE
2.2nF	3225	2.00+0.30,-0.20	±2%		CGA6M1C0G3A222G200AE		
			±5%		CGA6M1C0G3A222J200AE		
	2012	1.25+0.25,-0.20	±5%				CGA4J4C0G2W272J125AE
2.7nF	3225	2.00+0.30,-0.20	±2%		CGA6M1C0G3A272G200AE		
			±5%		CGA6M1C0G3A272J200AE		
	2012	1.25+0.25,-0.20	±5%				CGA4J4C0G2W332J125AE
3.3nF	3225	2.00+0.30,-0.20	±2%		CGA6M1C0G3A332G200AE		
			±5%		CGA6M1C0G3A332J200AE		
	2012	1.25+0.25,-0.20	±5%				CGA4J4C0G2W392J125AE
3.9nF	3216	0.85±0.15	±2%			CGA5F4C0G2J392G085AE	
			±5%			CGA5F4C0G2J392J085AE	
	3225	2.00+0.30,-0.20	±2%		CGA6M1C0G3A392G200AE		
			±5%		CGA6M1C0G3A392J200AE		
4.7nF	3225	2.00+0.30,-0.20	±2%		CGA6M1C0G3A472G200AE		
			±5%		CGA6M1C0G3A472J200AE		
5.6nF	3216	1.15±0.15	±2%			CGA5H4C0G2J562G115AE	
			±5%			CGA5H4C0G2J562J115AE	
	3225	2.00+0.30,-0.20	±2%		CGA6M1C0G3A562G200AE		
			±5%		CGA6M1C0G3A562J200AE		
6.8nF	3216	1.15±0.15	±2%			CGA5H4C0G2J682G115AE	
			±5%			CGA5H4C0G2J682J115AE	CGA5H4C0G2W682J115AE
	3225	2.00+0.30,-0.20	±2%		CGA6M1C0G3A682G200AE		
			±5%		CGA6M1C0G3A682J200AE		
		1.15±0.15	±5%				CGA5H4C0G2W822J115AE
8.2nF	3216	1.60+0.30,-0.20	±2%			CGA5L4C0G2J822G160AE	
			±5%			CGA5L4C0G2J822J160AE	
	3225	2.30+0.30,-0.20	±2%		CGA6N1C0G3A822G230AE		
			±5%		CGA6N1C0G3A822J230AE		
10nF	3216	1.60+0.30,-0.20	±2%			CGA5L4C0G2J103G160AE	
			±5%			CGA5L4C0G2J103J160AE	CGA5L4C0G2W103J160AE
15nF	3225	1.60+0.30,-0.20	±2%			CGA6L4C0G2J153G160AE	
			±5%			CGA6L4C0G2J153J160AE	
33nF	3225	2.50±0.30	±2%			CGA6P4C0G2J333G250AE	
			±5%			CGA6P4C0G2J333J250AE	CGA6P4C0G2W333J250AE
	4532	2.00+0.30,-0.20	±5%			CGA8M4C0G2J333J200KE	
68nF	5750	2.30+0.30,-0.20	±2%			CGA9N1C0G2J683G230KE	
			±5%			CGA9N1C0G2J683J230KE	

单击目录产品型号, 可查看产品详细信息。

MULTILAYER CERAMIC CHIP CAPACITORS



电容范围表

温度特性: COG (-55 to +125 °C ,0±30ppm/ °C)

电容	尺寸	厚度 (mm)	电容容差	目录型号		
				额定电压 Edc: 250V	额定电压 Edc: 100V	额定电压 Edc: 50V
100pF	1005	0.50±0.10,-0.05	±5%		CGA2B2C0G2A101J050BE	CGA2B2C0G1H101J050BE
	1608	0.80±0.15,-0.10	±5%			CGA3E2C0G1H101J080AE
150pF	1005	0.50±0.10,-0.05	±5%		CGA2B2C0G2A151J050BE	CGA2B2C0G1H151J050BE
220pF	1005	0.50±0.10,-0.05	±5%		CGA2B2C0G2A221J050BE	CGA2B2C0G1H221J050BE
330pF	1005	0.50±0.10,-0.05	±5%		CGA2B2C0G2A331J050BE	CGA2B2C0G1H331J050BE
	1608	0.80±0.15,-0.10	±5%		CGA3E2C0G2A331J080AE	CGA3E2C0G1H331J080AE
470pF	1005	0.50±0.10,-0.05	±5%		CGA2B1C0G2A471J050BE	CGA2B2C0G1H471J050BE
	1608	0.80±0.15,-0.10	±5%		CGA3E2C0G2A471J080AE	CGA3E2C0G1H471J080AE
680pF	1005	0.50±0.10,-0.05	±5%		CGA2B1C0G2A681J050BE	CGA2B2C0G1H681J050BE
	1608	0.80±0.15,-0.10	±5%		CGA3E2C0G2A681J080AE	CGA3E2C0G1H681J080AE
1nF	1005	0.50±0.10,-0.05	±5%		CGA2B1C0G2A102J050BE	CGA2B2C0G1H102J050BE
	1608	0.80±0.15,-0.10	±5%	CGA3E3C0G2E102J080AE	CGA3E2C0G2A102J080AE	CGA3E2C0G1H102J080AE
1.2nF	1608	0.80±0.15,-0.10	±5%	CGA3E3C0G2E122J080AE	CGA3E2C0G2A122J080AE	CGA3E2C0G1H122J080AE
1.5nF	1608	0.80±0.15,-0.10	±5%	CGA3E3C0G2E152J080AE	CGA3E2C0G2A152J080AE	CGA3E2C0G1H152J080AE
1.8nF	1608	0.80±0.15,-0.10	±5%	CGA3E3C0G2E182J080AE	CGA3E2C0G2A182J080AE	CGA3E2C0G1H182J080AE
2.2nF	1608	0.80±0.15,-0.10	±5%		CGA3E2C0G2A222J080AE	CGA3E2C0G1H222J080AE
2.7nF	1608	0.80±0.15,-0.10	±5%		CGA3E1C0G2A272J080AE	CGA3E2C0G1H272J080AE
3.3nF	1608	0.80±0.15,-0.10	±5%		CGA3E1C0G2A332J080AE	CGA3E2C0G1H332J080AE
	2012	0.85±0.15	±5%	CGA4F3C0G2E332J085AE		
3.9nF	1608	0.80±0.15,-0.10	±5%		CGA3E1C0G2A392J080AE	CGA3E2C0G1H392J080AE
	2012	1.25±0.25,-0.20	±5%	CGA4J3C0G2E392J125AE		
4.7nF	1608	0.80±0.15,-0.10	±5%		CGA3E1C0G2A472J080AE	CGA3E2C0G1H472J080AE
	2012	1.25±0.25,-0.20	±5%	CGA4J3C0G2E472J125AE		
5.6nF	1608	0.80±0.15,-0.10	±5%		CGA3E1C0G2A562J080AE	CGA3E2C0G1H562J080AE
	2012	1.25±0.25,-0.20	±5%	CGA4J3C0G2E562J125AE		
6.8nF	1608	0.80±0.15,-0.10	±5%		CGA3E1C0G2A682J080AE	CGA3E2C0G1H682J080AE
	2012	1.25±0.25,-0.20	±5%	CGA4J3C0G2E682J125AE		
8.2nF	1608	0.80±0.15,-0.10	±5%		CGA3E1C0G2A822J080AE	CGA3E2C0G1H822J080AE
10nF	1608	0.80±0.15,-0.10	±5%		CGA3E1C0G2A103J080AE	CGA3E2C0G1H103J080AE
	3216	1.15±0.15	±5%	CGA5H3C0G2E103J115AE		
15nF	2012	0.85±0.15	±5%		CGA4F1C0G2A153J085AE	CGA4F2C0G1H153J085AE
	3216	1.60±0.30,-0.20	±5%	CGA5L3C0G2E153J160AE		
22nF	2012	1.25±0.25,-0.20	±5%		CGA4J1C0G2A223J125AE	CGA4J2C0G1H223J125AE
	3225	1.60±0.30,-0.20	±5%	CGA6L3C0G2E223J160AE		
33nF	2012	1.25±0.25,-0.20	±5%		CGA4J1C0G2A333J125AE	CGA4J2C0G1H333J125AE
47nF	3216	1.15±0.15	±5%		CGA5H1C0G2A473J115AE	CGA5H2C0G1H473J115AE
68nF	3216	1.60±0.30,-0.20	±5%		CGA5L1C0G2A683J160AE	CGA5L2C0G1H683J160AE
	3225	2.30±0.30,-0.20	±5%		CGA6N2C0G2A683J230AE	
100nF	3216	1.60±0.30,-0.20	±5%		CGA5L1C0G2A104J160AE	CGA5L2C0G1H104J160AE
150nF	5750	2.30±0.30,-0.20	±5%	CGA9N4C0G2E154J230KE	CGA9N2C0G2A154J230KE	

单击目录产品型号, 可查看产品详细信息。

MULTILAYER CERAMIC CHIP CAPACITORS



电容范围表

温度特性: X7R (-55 to +125 °C, ±15%)

电容	尺寸	厚度 (mm)	电容容差	目录型号				
				额定电压 Edc: 2kV	额定电压 Edc: 630V	额定电压 Edc: 250V	额定电压 Edc: 100V	额定电压 Edc: 50V
1nF	1005	0.50+0.10,-0.05	±10%					CGA2B2X7R1H102K050BE
			±20%					CGA2B2X7R1H102M050BE
	1608	0.80+0.15,-0.10	±10%				CGA3E2X7R2A102K080AE	CGA3E2X7R1H102K080AE
			±20%				CGA3E2X7R2A102M080AE	CGA3E2X7R1H102M080AE
	2012	0.85±0.15	±10%			CGA4F3X7R2E102K085AE	CGA4F2X7R2A102K085AE	
			±20%			CGA4F3X7R2E102M085AE	CGA4F2X7R2A102M085AE	
2.2nF	3216	1.15±0.15	±10%		CGA5H4X7R2J102K115AE			
			±20%		CGA5H4X7R2J102M115AE			
	4520	1.30±0.20	±10%	CGA7K1X7R3D102K130KE				
			±20%	CGA7K1X7R3D102M130KE				
	1005	0.50+0.10,-0.05	±10%					CGA2B2X7R1H222K050BE
			±20%					CGA2B2X7R1H222M050BE
3.3nF	1608	0.80+0.15,-0.10	±10%				CGA3E2X7R2A222K080AE	CGA3E2X7R1H222K080AE
			±20%				CGA3E2X7R2A222M080AE	CGA3E2X7R1H222M080AE
	2012	0.85±0.15	±10%			CGA4F3X7R2E222K085AE	CGA4F2X7R2A222K085AE	
			±20%			CGA4F3X7R2E222M085AE	CGA4F2X7R2A222M085AE	
	3216	1.15±0.15	±10%		CGA5H4X7R2J222K115AE			
			±20%		CGA5H4X7R2J222M115AE			
4.7nF	4532	1.30±0.20	±10%	CGA8K1X7R3D222K130KE				
			±20%	CGA8K1X7R3D222M130KE				
	3216	1.15±0.15	±10%		CGA5H4X7R2J332K115AE			
			±20%		CGA5H4X7R2J332M115AE			
	1005	0.50+0.10,-0.05	±10%					CGA2B2X7R1H472K050BE
			±20%					CGA2B2X7R1H472M050BE
10nF	1608	0.80+0.15,-0.10	±10%				CGA3E2X7R2A472K080AE	CGA3E2X7R1H472K080AE
			±20%				CGA3E2X7R2A472M080AE	CGA3E2X7R1H472M080AE
	2012	0.85±0.15	±10%			CGA4F3X7R2E472K085AE	CGA4F2X7R2A472K085AE	
			±20%			CGA4F3X7R2E472M085AE	CGA4F2X7R2A472M085AE	
	3216	1.15±0.15	±10%		CGA5H4X7R2J472K115AE			
			±20%		CGA5H4X7R2J472M115AE			
22nF	1005	0.50+0.10,-0.05	±10%					CGA2B3X7R1H103K050BE
			±20%					CGA2B3X7R1H103M050BE
	1608	0.80+0.15,-0.10	±10%				CGA3E2X7R2A103K080AE	CGA3E2X7R1H103K080AE
			±20%				CGA3E2X7R2A103M080AE	CGA3E2X7R1H103M080AE
	2012	0.85±0.15	±10%				CGA4F2X7R2A103K085AE	
			±20%				CGA4F2X7R2A103M085AE	
33nF	3216	1.15±0.15	±10%		CGA5H4X7R2J103K115AE			
			±20%		CGA5H4X7R2J103M115AE			
	1005	0.50+0.10,-0.05	±10%					CGA2B3X7R1H223K050BE
			±20%					CGA2B3X7R1H223M050BE
	1608	0.80+0.15,-0.10	±10%				CGA3E2X7R2A223K080AE	CGA3E2X7R1H223K080AE
			±20%				CGA3E2X7R2A223M080AE	CGA3E2X7R1H223M080AE
33nF	2012	1.25+0.25,-0.20	±10%			CGA4J3X7R2E223K125AE	CGA4J2X7R2A223K125AE	
			±20%			CGA4J3X7R2E223M125AE	CGA4J2X7R2A223M125AE	
	3216	1.15±0.15	±10%			CGA5H3X7R2E223K115AE		
			±20%			CGA5H3X7R2E223M115AE		
	3216	1.30±0.20	±10%		CGA5K4X7R2J223K130AE			
			±20%		CGA5K4X7R2J223M130AE			

■灰色字体的品名为不推荐用于新设计中的产品。
 单击目录产品型号, 可查看产品详细信息。

MULTILAYER CERAMIC CHIP CAPACITORS



电容范围表

温度特性: X7R (-55 to +125 °C, ±15%)

电容	尺寸	厚度 (mm)	电容容差	目录型号			
				额定电压 Edc: 630V	额定电压 Edc: 250V	额定电压 Edc: 100V	额定电压 Edc: 50V
47nF	1005	0.50+0.10,-0.05	±10%				CGA2B3X7R1H473K050BE
			±20%				CGA2B3X7R1H473M050BE
	1608	0.80+0.15,-0.10	±10%				CGA3E2X7R1H473K080AE
			±20%				CGA3E2X7R1H473M080AE
	2012	1.25+0.25,-0.20	±10%			CGA4J2X7R2A473K125AE	
			±20%			CGA4J2X7R2A473M125AE	
68nF	3216	1.60+0.30,-0.20	±10%		CGA5L3X7R2E473K160AE		
			±20%		CGA5L3X7R2E473M160AE		
	3225	2.00+0.30,-0.20	±10%	CGA6M4X7R2J473K200AE			
			±20%	CGA6M4X7R2J473M200AE			
	3225	2.00+0.30,-0.20	±10%	CGA6M4X7R2J683K200AE			
			±20%	CGA6M4X7R2J683M200AE			
100nF	1005	0.50+0.10,-0.05	±10%				CGA2B3X7R1H104K050BE
			±20%				CGA2B3X7R1H104M050BE
	1608	0.80+0.15,-0.10	±10%				CGA3E2X7R1H104K080AE
			±20%				CGA3E2X7R1H104M080AE
	2012	1.25+0.25,-0.20	±10%			CGA4J2X7R2A104K125AE	CGA4J2X7R1H104K125AE
			±20%			CGA4J2X7R2A104M125AE	CGA4J2X7R1H104M125AE
220nF	3216	1.60+0.30,-0.20	±10%		CGA5L3X7R2E104K160AE	CGA5L2X7R2A104K160AE	
			±20%		CGA5L3X7R2E104M160AE	CGA5L2X7R2A104M160AE	
	3225	2.00+0.30,-0.20	±10%		CGA6M3X7R2E104K200AE		
			±20%		CGA6M3X7R2E104M200AE		
	4532	2.30+0.30,-0.20	±10%	CGA8N4X7R2J104K230KE			
			±20%	CGA8N4X7R2J104M230KE			
470nF	1608	0.80+0.15,-0.10	±10%				CGA3E3X7R1H224K080AE
			±20%				CGA3E3X7R1H224M080AE
	2012	1.25+0.25,-0.20	±10%				CGA4J2X7R1H224K125AE
			±20%				CGA4J2X7R1H224M125AE
	3216	1.15±0.15	±10%			CGA5H2X7R2A224K115AE	
			±20%			CGA5H2X7R2A224M115AE	
470nF	3225	2.00+0.30,-0.20	±10%		CGA6M3X7R2E224K200AE		
			±20%		CGA6M3X7R2E224M200AE		
	5750	2.30+0.30,-0.20	±10%	CGA9N4X7R2J224K230KE			
			±20%	CGA9N4X7R2J224M230KE			
470nF	1608	0.80+0.15,-0.10	±10%				CGA3E3X7R1H474K080AE
			±20%				CGA3E3X7R1H474M080AE
	2012	1.25+0.25,-0.20	±10%				CGA4J3X7R1H474K125AE
			±20%				CGA4J3X7R1H474M125AE
	3216	1.60+0.30,-0.20	±10%			CGA5L2X7R2A474K160AE	
			±20%			CGA5L2X7R2A474M160AE	
1µF	3225	2.00+0.30,-0.20	±10%			CGA6M2X7R2A474K200AE	
			±20%			CGA6M2X7R2A474M200AE	
	4532	2.30+0.30,-0.20	±10%		CGA8N3X7R2E474K230KE		
			±20%		CGA8N3X7R2E474M230KE		
	2012	1.25+0.25,-0.20	±10%				CGA4J3X7R1H105K125AE
			±20%				CGA4J3X7R1H105M125AE
1µF	3216	1.60+0.30,-0.20	±10%			CGA5L2X7R2A105K160AE	CGA5L3X7R1H105K160AE
			±20%			CGA5L2X7R2A105M160AE	CGA5L3X7R1H105M160AE
	3225	2.00+0.30,-0.20	±10%			CGA6M2X7R2A105K200AE	CGA6L2X7R1H105K160AE
			±20%			CGA6M2X7R2A105M200AE	CGA6L2X7R1H105M160AE
	5750	2.30+0.30,-0.20	±10%		CGA9N3X7R2E105K230KE		
			±20%		CGA9N3X7R2E105M230KE		
2.2µF	2012	1.25+0.25,-0.20	±10%				CGA4J3X7R1H225K125AE
			±20%				CGA4J3X7R1H225M125AE
	3216	1.60+0.30,-0.20	±10%				CGA5L3X7R1H225K160AE
			±20%				CGA5L3X7R1H225M160AE
	3225	2.00+0.30,-0.20	±10%				CGA6M3X7R1H225K200AE
			±20%				CGA6M3X7R1H225M200AE
4.7µF	2012	1.25+0.25,-0.20	±10%				CGA4J1X7R1H475K125AE
			±10%				CGA5L3X7R1H475K160AE
	3216	1.60+0.30,-0.20	±10%				CGA5L3X7R1H475M160AE
			±20%				CGA6P3X7R1H475K250AE
	3225	2.50±0.30	±10%				CGA6P3X7R1H475K250AE
			±10%				CGA5L1X7R1H106K160AE

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MULTILAYER CERAMIC CHIP CAPACITORS



电容范围表

温度特性: X7R (-55 to +125 °C ,±15%)

电容	尺寸	厚度 (mm)	电容容差	目录型号			
				额定电压 Edc: 35V	额定电压 Edc: 25V	额定电压 Edc: 16V	额定电压 Edc: 6.3V
220nF	1005	0.50+0.10,-0.05	±10%	CGA2B1X7R1V224K050BE	CGA2B3X7R1E224K050BE	CGA2B2X7R1C224K050BE	
			±20%	CGA2B1X7R1V224M050BE	CGA2B3X7R1E224M050BE	CGA2B2X7R1C224M050BE	
	1608	0.80+0.15,-0.10	±10%	CGA3E3X7R1V224K080AE			
			±20%	CGA3E3X7R1V224M080AE			
470nF	1608	0.80+0.15,-0.10	±10%	CGA3E1X7R1V474K080AE	CGA3E3X7R1E474K080AE		
			±20%	CGA3E1X7R1V474M080AE	CGA3E3X7R1E474M080AE		
1µF	1608	0.80+0.15,-0.10	±10%	CGA3E1X7R1V105K080AE	CGA3E1X7R1E105K080AE		
			±20%	CGA3E1X7R1V105M080AE	CGA3E1X7R1E105M080AE		
	2012	1.25+0.25,-0.20	±10%	CGA4J3X7R1V105K125AE			
			±20%	CGA4J3X7R1V105M125AE			
2.2µF	2012	1.25+0.25,-0.20	±10%	CGA4J1X7R1V225K125AE	CGA4J3X7R1E225K125AE		
			±20%	CGA4J1X7R1V225M125AE	CGA4J3X7R1E225M125AE		
	3216	1.60+0.30,-0.20	±10%	CGA5L3X7R1V225K160AE	CGA5L2X7R1E225K160AE		
			±20%	CGA5L3X7R1V225M160AE	CGA5L2X7R1E225M160AE		
4.7µF	2012	1.25+0.25,-0.20	±10%	CGA4J1X7R1V475K125AE	CGA4J1X7R1E475K125AE	CGA4J3X7R1C475K125AE	
			±20%	CGA4J1X7R1V475M125AE	CGA4J1X7R1E475M125AE	CGA4J3X7R1C475M125AE	
	3216	1.60+0.30,-0.20	±10%	CGA5L1X7R1V475K160AE			
			±20%	CGA5L1X7R1V475M160AE			
10µF	2012	1.25±0.20	±10%				CGA4J1X7R0J106K125AE
	3216	1.60+0.30,-0.20	±10%	CGA5L1X7R1V106K160AE	CGA5L1X7R1E106K160AE		
			±20%	CGA5L1X7R1V106M160AE	CGA5L1X7R1E106M160AE		
22µF	3216	1.60+0.30,-0.20	±20%				CGA5L1X7R0J226M160AE
	3225	2.50±0.30	±20%		CGA6P3X7R1E226M250AE		
47µF	7563	2.30 (2.50max.)	±20%		CGADN3X7R1E476M230LE		

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电容范围表

温度特性: X7S (-55 to +125 °C ,±22%)

电容	尺寸	厚度 (mm)	电容容差	目录型号				
				额定电压 Edc: 100V	额定电压 Edc: 50V	额定电压 Edc: 25V	额定电压 Edc: 16V	额定电压 Edc: 10V
47nF	1608	0.80+0.15,-0.10	±10%	CGA3E3X7S2A473K080AE				
			±20%	CGA3E3X7S2A473M080AE				
100nF	1608	0.80+0.15,-0.10	±10%	CGA3E3X7S2A104K080AE				
			±20%	CGA3E3X7S2A104M080AE				
220nF	2012	0.85±0.15	±10%	CGA4F3X7S2A224K085AE				
			±20%	CGA4F3X7S2A224M085AE				
470nF	1005	0.50+0.10,-0.05	±10%				CGA2B1X7S1C474K050BE	CGA2B3X7S1A474K050BE
			±20%				CGA2B1X7S1C474M050BE	CGA2B3X7S1A474M050BE
	2012	1.25+0.25,-0.20	±10%	CGA4J3X7S2A474K125AE				
			±20%	CGA4J3X7S2A474M125AE				
1µF	2012	1.25+0.25,-0.20	±10%	CGA4J3X7S2A105K125AE				
			±20%	CGA4J3X7S2A105M125AE				
2.2µF	1608	0.80+0.15,-0.10	±10%				CGA3E1X7S1C225K080AE	CGA3E3X7S1A225K080AE
			±20%				CGA3E1X7S1C225M080AE	CGA3E3X7S1A225M080AE
	3216	1.60+0.30,-0.20	±10%	CGA5L3X7S2A225K160AE				
			±20%	CGA5L3X7S2A225M160AE				
3.3µF	3225	2.00+0.30,-0.20	±10%	CGA6M3X7S2A335K200AE				
			±20%	CGA6M3X7S2A335M200AE				
4.7µF	3225	2.00+0.30,-0.20	±10%	CGA6M3X7S2A475K200AE				
			±20%	CGA6M3X7S2A475M200AE				
	3216	1.60+0.30,-0.20	±10%		CGA6N3X7S1H475K230AE			
			±20%		CGA6N3X7S1H475M230AE			
10µF	2012	1.25+0.25,-0.20	±10%			CGA4J1X7S1E106K125AE	CGA4J1X7S1C106K125AE	CGA4J3X7S1A106K125AE
			±20%				CGA4J1X7S1C106M125AE	CGA4J3X7S1A106M125AE
	3225	2.50±0.30	±10%		CGA6P3X7S1H106K250AE			
			±20%		CGA6P3X7S1H106M250AE			
	5750	2.30+0.30,-0.20	±10%	CGA9N3X7S2A106K230KE				
			±20%	CGA9N3X7S2A106M230KE				

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MULTILAYER CERAMIC CHIP CAPACITORS



电容范围表

温度特性: X7T (-55 to +125 °C, +22, -33%)

电容	尺寸	厚度 (mm)	电容容差	目录型号		
				额定电压 Edc: 630V	额定电压 Edc: 450V	额定电压 Edc: 250V
10 nF	2012	0.85±0.15	± 10%		CGA4F4X7T2W103K085AE	
			± 20%		CGA4F4X7T2W103M085AE	
22 nF	2012	1.25+0.25,-0.20	± 10%		CGA4J4X7T2W223K125AE	
			± 20%		CGA4J4X7T2W223M125AE	
47 nF	2012	1.25+0.25,-0.20	± 10%		CGA4J4X7T2W473K125AE	CGA4J3X7T2E473K125AE
			± 20%		CGA4J4X7T2W473M125AE	CGA4J3X7T2E473M125AE
	3216	1.60+0.30,-0.20	± 10%	CGA5L1X7T2J473K160AE		
			± 20%	CGA5L1X7T2J473M160AE		
	2012	1.25+0.25,-0.20	± 10%			CGA4J3X7T2E104K125AE
			± 20%			CGA4J3X7T2E104M125AE
100 nF	3216	1.60+0.30,-0.20	± 10%	CGA5L4X7T2W104K160AE		
			± 20%	CGA5L4X7T2W104M160AE		
	3225	1.60+0.30,-0.20	± 10%	CGA6L1X7T2J104K160AE		
			± 20%	CGA6L1X7T2J104M160AE		
150 nF	3225	2.00+0.30,-0.20	± 10%	CGA6M1X7T2J154K200AE		
			± 20%	CGA6M1X7T2J154M200AE		
220 nF	3216	1.60+0.30,-0.20	± 10%			CGA5L3X7T2E224K160AE
			± 20%			CGA5L3X7T2E224M160AE
	3225	2.00+0.30,-0.20	± 10%	CGA6M4X7T2W224K200AE		
			± 20%	CGA6M4X7T2W224M200AE		
330 nF	4532	2.00+0.30,-0.20	± 10%	CGA8M1X7T2J224K200KE		
			± 20%	CGA8M1X7T2J224M200KE		
	3225	2.00+0.30,-0.20	± 10%			CGA6M3X7T2E334K200AE
			± 20%			CGA6M3X7T2E334M200AE
470 nF	4532	2.30+0.30,-0.20	± 10%	CGA8N4X7T2W474K230KE		
			± 20%	CGA8N4X7T2W474M230KE		
	5750	2.50±0.30	± 10%	CGA9P1X7T2J474K250KE		
			± 20%	CGA9P1X7T2J474M250KE		
1 µF	4532	2.50±0.30	± 10%			CGA8P3X7T2E105K250KE
			± 20%			CGA8P3X7T2E105M250KE
	5750	2.50±0.30	± 10%	CGA9P4X7T2W105K250KE		
			± 20%	CGA9P4X7T2W105M250KE		
2.2 µF	5750	2.50±0.30	± 10%			CGA9P3X7T2E225K250KE
			± 20%			CGA9P3X7T2E225M250KE

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MULTILAYER CERAMIC CHIP CAPACITORS



电容范围表

温度特性: X8R (-55 to +150 °C, ±15%)

电容	尺寸	厚度 (mm)	电容容差	目录型号			
				额定电压 Edc: 100V	额定电压 Edc: 50V	额定电压 Edc: 25V	额定电压 Edc: 16V
150pF	1005	0.50+0.10,-0.05	±10%	CGA2B2X8R2A151K050BE	CGA2B2X8R1H151K050BE		
			±20%	CGA2B2X8R2A151M050BE	CGA2B2X8R1H151M050BE		
220pF	1005	0.50+0.10,-0.05	±10%	CGA2B2X8R2A221K050BE	CGA2B2X8R1H221K050BE		
			±20%	CGA2B2X8R2A221M050BE	CGA2B2X8R1H221M050BE		
330pF	1005	0.50+0.10,-0.05	±10%	CGA2B2X8R2A331K050BE	CGA2B2X8R1H331K050BE		
			±20%	CGA2B2X8R2A331M050BE	CGA2B2X8R1H331M050BE		
470pF	1005	0.50+0.10,-0.05	±10%	CGA2B2X8R2A471K050BE	CGA2B2X8R1H471K050BE		
			±20%	CGA2B2X8R2A471M050BE	CGA2B2X8R1H471M050BE		
680pF	1005	0.50+0.10,-0.05	±10%	CGA2B2X8R2A681K050BE	CGA2B2X8R1H681K050BE		
			±20%	CGA2B2X8R2A681M050BE	CGA2B2X8R1H681M050BE		
1nF	1005	0.50+0.10,-0.05	±10%	CGA2B2X8R2A102K050BE	CGA2B2X8R1H102K050BE		
			±20%	CGA2B2X8R2A102M050BE	CGA2B2X8R1H102M050BE		
	1608	0.80+0.15,-0.10	±10%	CGA3E2X8R2A102K080AE	CGA3E2X8R1H102K080AE		
			±20%	CGA3E2X8R2A102M080AE	CGA3E2X8R1H102M080AE		
1.5nF	1005	0.50+0.10,-0.05	±10%	CGA2B2X8R2A152K050BE	CGA2B2X8R1H152K050BE		
			±20%	CGA2B2X8R2A152M050BE	CGA2B2X8R1H152M050BE		
	1608	0.80+0.15,-0.10	±10%	CGA3E2X8R2A152K080AE	CGA3E2X8R1H152K080AE		
			±20%	CGA3E2X8R2A152M080AE	CGA3E2X8R1H152M080AE		
2.2nF	1005	0.50+0.10,-0.05	±10%	CGA2B2X8R2A222K050BE	CGA2B2X8R1H222K050BE		
			±20%	CGA2B2X8R2A222M050BE	CGA2B2X8R1H222M050BE		
	1608	0.80+0.15,-0.10	±10%	CGA3E2X8R2A222K080AE	CGA3E2X8R1H222K080AE		
			±20%	CGA3E2X8R2A222M080AE	CGA3E2X8R1H222M080AE		
3.3nF	1005	0.50+0.10,-0.05	±10%	CGA2B3X8R2A332K050BE	CGA2B3X8R1H332K050BE		
			±20%	CGA2B3X8R2A332M050BE	CGA2B3X8R1H332M050BE		
	1608	0.80+0.15,-0.10	±10%	CGA3E2X8R2A332K080AE	CGA3E2X8R1H332K080AE		
			±20%	CGA3E2X8R2A332M080AE	CGA3E2X8R1H332M080AE		
4.7nF	1005	0.50+0.10,-0.05	±10%		CGA2B2X8R1H472K050BE		
			±20%		CGA2B2X8R1H472M050BE		
	1608	0.80+0.15,-0.10	±10%	CGA3E2X8R2A472K080AE	CGA3E2X8R1H472K080AE		
			±20%	CGA3E2X8R2A472M080AE	CGA3E2X8R1H472M080AE		
6.8nF	1005	0.50+0.10,-0.05	±10%		CGA2B3X8R1H682K050BE	CGA2B2X8R1E682K050BE	
			±20%		CGA2B3X8R1H682M050BE	CGA2B2X8R1E682M050BE	
	1608	0.80+0.15,-0.10	±10%	CGA3E2X8R2A682K080AE	CGA3E2X8R1H682K080AE		
			±20%	CGA3E2X8R2A682M080AE	CGA3E2X8R1H682M080AE		
10nF	1005	0.50+0.10,-0.05	±10%		CGA2B3X8R1H103K050BE	CGA2B2X8R1E103K050BE	
			±20%		CGA2B3X8R1H103M050BE	CGA2B2X8R1E103M050BE	
	1608	0.80+0.15,-0.10	±10%	CGA3E2X8R2A103K080AE	CGA3E2X8R1H103K080AE		
			±20%	CGA3E2X8R2A103M080AE	CGA3E2X8R1H103M080AE		
15nF	1005	0.50+0.10,-0.05	±10%			CGA2B3X8R1E153K050BE	
			±20%			CGA2B3X8R1E153M050BE	
	1608	0.80+0.15,-0.10	±10%	CGA3E2X8R2A153K080AE	CGA3E2X8R1H153K080AE		
			±20%	CGA3E2X8R2A153M080AE	CGA3E2X8R1H153M080AE		
22nF	1005	0.50+0.10,-0.05	±10%			CGA2B3X8R1E223K050BE	
			±20%			CGA2B3X8R1E223M050BE	
	1608	0.80+0.15,-0.10	±10%	CGA3E3X8R2A223K080AE	CGA3E2X8R1H223K080AE		
			±20%	CGA3E3X8R2A223M080AE	CGA3E2X8R1H223M080AE		
	2012	1.25+0.25,-0.20	±10%	CGA4J2X8R2A223K125AE			
			±20%	CGA4J2X8R2A223M125AE			
33nF	1005	0.50+0.10,-0.05	±10%			CGA2B1X8R1E333K050BE	CGA2B3X8R1C333K050BE
			±20%			CGA2B1X8R1E333M050BE	CGA2B3X8R1C333M050BE
	1608	0.80+0.15,-0.10	±10%		CGA3E2X8R1H333K080AE		
			±20%		CGA3E2X8R1H333M080AE		
	2012	1.25+0.25,-0.20	±10%	CGA4J3X8R2A333K125AE			
			±20%	CGA4J3X8R2A333M125AE			
47nF	1005	0.50+0.10,-0.05	±10%			CGA2B1X8R1E473K050BE	CGA2B3X8R1C473K050BE
			±20%			CGA2B1X8R1E473M050BE	CGA2B3X8R1C473M050BE
	1608	0.80+0.15,-0.10	±10%		CGA3E2X8R1H473K080AE		
			±20%		CGA3E2X8R1H473M080AE		
	2012	1.25+0.25,-0.20	±10%	CGA4J3X8R2A473K125AE			
			±20%	CGA4J3X8R2A473M125AE			
68nF	1608	0.80+0.15,-0.10	±10%		CGA3E3X8R1H683K080AE	CGA3E2X8R1E683K080AE	
			±20%		CGA3E3X8R1H683M080AE	CGA3E2X8R1E683M080AE	
	2012	1.25+0.25,-0.20	±10%	CGA4J3X8R2A683K125AE	CGA4J2X8R1H683K125AE		
			±20%	CGA4J3X8R2A683M125AE	CGA4J2X8R1H683M125AE		

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MULTILAYER CERAMIC CHIP CAPACITORS



电容范围表

温度特性: X8R (-55 to +150 °C, ±15%)

电容	尺寸	厚度 (mm)	电容容差	目录型号			
				额定电压 Edc: 100V	额定电压 Edc: 50V	额定电压 Edc: 25V	额定电压 Edc: 16V
100nF	1608	0.80+0.15,-0.10	±10%		CGA3E3X8R1H104K080AE	CGA3E2X8R1E104K080AE	
			±20%		CGA3E3X8R1H104M080AE	CGA3E2X8R1E104M080AE	
	2012	1.25+0.25,-0.20	±10%		CGA4J2X8R1H104K125AE		
			±20%		CGA4J2X8R1H104M125AE		
	3216	1.15±0.15	±10%	CGA5H2X8R2A104K115AE			
			±20%	CGA5H2X8R2A104M115AE			
150nF	1608	0.80+0.15,-0.10	±10%			CGA3E3X8R1E154K080AE	
			±20%			CGA3E3X8R1E154M080AE	
	2012	0.85±0.15	±10%			CGA4F2X8R1E154K085AE	
			±20%			CGA4F2X8R1E154M085AE	
		1.25+0.25,-0.20	±10%		CGA4J3X8R1H154K125AE		
			±20%		CGA4J3X8R1H154M125AE		
	3216	1.60+0.30,-0.20	±10%	CGA5L2X8R2A154K160AE			
			±20%	CGA5L2X8R2A154M160AE			
220nF	1608	0.80+0.15,-0.10	±10%			CGA3E3X8R1E224K080AE	
			±20%			CGA3E3X8R1E224M080AE	
	2012	1.25+0.25,-0.20	±10%		CGA4J3X8R1H224K125AE	CGA4J2X8R1E224K125AE	
			±20%		CGA4J3X8R1H224M125AE	CGA4J2X8R1E224M125AE	
	3216	1.60+0.30,-0.20	±10%	CGA5L3X8R2A224K160AE			
			±20%	CGA5L3X8R2A224M160AE			
330nF	1608	0.80+0.15,-0.10	±10%			CGA3E1X8R1E334K080AE	CGA3E3X8R1C334K080AE
			±20%			CGA3E1X8R1E334M080AE	CGA3E3X8R1C334M080AE
	2012	1.25+0.25,-0.20	±10%			CGA4J2X8R1E334K125AE	
			±20%			CGA4J2X8R1E334M125AE	
	3216	1.60+0.30,-0.20	±10%	CGA5L3X8R2A334K160AE	CGA5L2X8R1H334K160AE		
			±20%	CGA5L3X8R2A334M160AE	CGA5L2X8R1H334M160AE		
470nF	1608	0.80+0.15,-0.10	±10%				CGA3E3X8R1C474K080AE
			±20%				CGA3E3X8R1C474M080AE
	2012	1.25+0.25,-0.20	±10%			CGA4J3X8R1E474K125AE	
			±20%			CGA4J3X8R1E474M125AE	
	3216	1.60+0.30,-0.20	±10%		CGA5L2X8R1H474K160AE		
			±20%		CGA5L2X8R1H474M160AE		
470nF	3225	2.00+0.30,-0.20	±10%	CGA6M3X8R2A474K200AE			
			±20%	CGA6M3X8R2A474M200AE			
	2012	1.25+0.25,-0.20	±10%			CGA4J1X8R1E684K125AE	CGA4J3X8R1C684K125AE
			±20%			CGA4J1X8R1E684M125AE	CGA4J3X8R1C684M125AE
680nF	3216	1.60+0.30,-0.20	±10%		CGA5L3X8R1H684K160AE		
			±20%		CGA5L3X8R1H684M160AE		
	3225	2.50±0.30	±10%	CGA6P3X8R2A684K250AE			
			±20%	CGA6P3X8R2A684M250AE			
1µF	2012	1.25+0.25,-0.20	±10%			CGA4J1X8R1E105K125AE	CGA4J3X8R1C105K125AE
			±20%			CGA4J1X8R1E105M125AE	CGA4J3X8R1C105M125AE
1.5µF	3216	1.60+0.30,-0.20	±10%		CGA5L3X8R1H105K160AE	CGA5L2X8R1E105K160AE	
			±20%		CGA5L3X8R1H105M160AE	CGA5L2X8R1E105M160AE	
2.2µF	3216	1.60+0.30,-0.20	±10%			CGA5L3X8R1E155K160AE	
			±20%			CGA5L3X8R1E155M160AE	
3.3µF	3216	1.60+0.30,-0.20	±10%			CGA5L3X8R1E225K160AE	
			±20%			CGA5L3X8R1E225M160AE	
3.3µF	3216	1.60+0.30,-0.20	±10%			CGA5L1X8R1E335K160AE	CGA5L3X8R1C335K160AE
			±20%			CGA5L1X8R1E335M160AE	CGA5L3X8R1C335M160AE
	3225	2.50±0.30	±10%		CGA6P2X8R1E335K250AE		
			±20%		CGA6P2X8R1E335M250AE		
4.7µF	3216	1.60+0.30,-0.20	±10%			CGA5L1X8R1E475K160AE	CGA5L3X8R1C475K160AE
			±20%			CGA5L1X8R1E475M160AE	CGA5L3X8R1C475M160AE
	3225	2.50±0.30	±10%		CGA6P3X8R1E475K250AE		
			±20%		CGA6P3X8R1E475M250AE		
10µF	3225	2.50±0.30	±10%		CGA6P1X8R1E106K250AE	CGA6P3X8R1C106K250AE	
			±20%		CGA6P1X8R1E106M250AE	CGA6P3X8R1C106M250AE	

单击目录产品型号, 可查看产品详细信息。

电容范围表

温度特性: X8L (-55 to +150 °C ,+15,-40%)

电容	尺寸	厚度 (mm)	电容容差	目录型号			
				额定电压 Edc: 50V	额定电压 Edc: 35V	额定电压 Edc: 25V	额定电压 Edc: 10V
470nF	2012	1.25+0.25,-0.20	±10%	CGA4J1X8L1H474K125AE			
1µF	2012	1.25+0.25,-0.20	±10%	CGA4J1X8L1H105K125AE			
2.2µF	2012	1.25+0.25,-0.20	±10%		CGA4J1X8L1V225K125AE		
4.7µF	2012	1.25+0.25,-0.20	±10%			CGA4J1X8L1E475K125AE	
10µF	2012	1.25+0.25,-0.20	±10%				CGA4J1X8L1A106K125AE
	3216	1.60+0.30,-0.20	±10%		CGA5L1X8L1E106K160AE		

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