



积层贴片陶瓷片式电容器



CGA系列 车载等级 高温保证用

Type:

CGA2 [EIA CC0402]
CGA3 [EIA CC0603]
CGA4 [EIA CC0805]
CGA5 [EIA CC1206]
CGA6 [EIA CC1210]
CGA8 [EIA CC1812]

Issue date:
July 2013



使用注意事项

使用本产品前，请务必阅读

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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TDK型号。

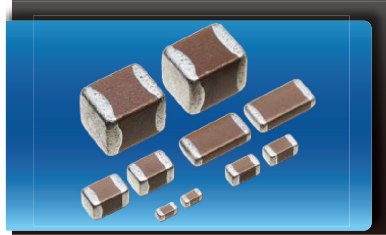
新TDK型号将在以后所有根据产品目录订货时使用，但不适用于OEM订购。

TDK型号的最后5个与产品标签上的交货品名（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。

（构成例）

产品目录发行日期	TDK 型号（产品目录上的标识）	交货品名（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



CGA 系列 高温保证用

Type: CGA2 [EIA CC0402]、CGA3 [EIA CC0603]、CGA4 [EIA CC0805]、CGA5 [EIA CC1206]、CGA6 [EIA CC1210]、CGA8 [EIA CC1812]



特点



- 最高温度150°C，电容变化率在±15%以内，本系列适用于在高温环境下工作的设备。
- 实现优异的直流偏压特性。
- 符合 AEC-Q200 车载标准。

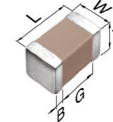
参数	规格
温度特性	-55 to +150°C $\Delta C, C: \pm 15\%$ 或 $0 \pm 30 \text{ ppm}$
工作温度	-55 to +150°C
耗散因数	5% max.
绝缘电阻	10 GΩ 或 500 MΩ • μF min.
耐电压	额定电压的 2.5 倍 或 3 倍 1 ~ 5 秒 充电、放电 ≤ 50 mA

用途



- 车载用（发动机室）
- 适用于高温环境下的 IGBT、IC (SiC、GaN) 外围电路
- 传感器模块
- 对高温环境中动作的其他设备进行的去耦、平滑等

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



型号的识别法

CGA • 6 • P • 3 • X8R • 1C • 106 • K • 250 • A • B

系列名称

尺寸 L x W (mm)

代码	长度	宽度	端子
2	1.00 ± 0.05	0.50 ± 0.05	0.10 min.
3	1.60 ± 0.10	0.80 ± 0.10	0.20 min.
4	2.00 ± 0.20	1.25 ± 0.20	0.20 min.
5	3.20 ± 0.20	1.60 ± 0.20	0.20 min.
6	3.20 ± 0.40	2.50 ± 0.30	0.20 min.
8	4.50 ± 0.40	3.20 ± 0.40	0.20 min.

*尺寸公差表示的是具有代表性的数值

厚度 T 代码 (mm)

代码	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
L	1.60 mm
M	2.00 mm
N	2.30 mm
P	2.50 mm
R	3.20 mm

寿命试验的电压条件

代号	条件
2	2 × R.V.
3	1.5 × R.V.

温度特性

温度特性	电容变化率	温度范围
NP0	0 ± 30 ppm/°C	-55 to +150°C
X8R	±15%	-55 to +150°C

额定电压 (直流)

代码	电压 (直流)
1C	16V
1E	25V
1H	50V
2A	100V

标称电容 (pF)

电容量以 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数。含有小数点时用 R 表示。

Ex. 0R2 = 0.2 pF; 103 = 10,000 pF; 105 = 1,000,000 pF = 1,000 nF = 1 μF

电容容差

代码	容差
C	± 0.25 pF
D	± 0.50 pF
J	± 5%
K	± 10%
M	± 20%

标称厚度

代码	厚度	代码	厚度
050	0.50 mm	160	1.60 mm
060	0.60 mm	200	2.00 mm
080	0.80 mm	230	2.30 mm
085	0.85 mm	250	2.50 mm
115	1.15 mm	320	3.20 mm
125	1.25 mm		

包装形式

代码	形式
A	178" 卷筒、4mm 间距
B	178" 卷筒、2mm 间距
K	178" 卷筒、8mm 间距

特殊指定代码

代码	说明
A、B	本公司内部管理符号



CGA2(1005)[EIA CC0402]

电容范围图

温度特性: NP0 (0 ± 30ppm/℃)、X8R (±15%)
额定电压: 50V(1H)、25V(1E)、16V(1C)

电容		电容容差	NP0	X8R		
(pF)	代码		1H (50V)	1H (50V)	1E (25V)	1C (16V)
1	010	C: ± 0.25pF D: ± 0.50pF J: ± 5% K: ± 10% M: ± 20%				
1.5	1R5					
2	020					
2.2	2R2					
3	030					
3.3	3R3					
4	040					
4.7	4R7					
5	050					
6	060					
6.8	6R8					
7	070					
8	080					
9	090					
10	100					
12	120					
15	150					
18	180					
22	220					
27	270					
33	330					
39	390					
47	470					
56	560					
68	680					
82	820					
100	101					
120	121					
150	151					
180	181					
220	221					
270	271					
330	331					
390	391					
470	471					
560	561					
680	681					
820	821					
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					

标准厚度
0.50 mm



电容 范围图

CGA3(1608)[EIA CC0603]

电容范围图

温度特性: NP0 ($0 \pm 30\text{ppm}/^\circ\text{C}$)、X8R ($\pm 15\%$)
 额定电压: 100V(2A)、50V(1H)、25V(1E)、16V(1C)

电容		电容容差	NP0	
(pF)	代码		2A (100V)	1H (50V)
1	010	C: $\pm 0.25\text{pF}$ D: $\pm 0.50\text{pF}$ J: $\pm 5\%$ K: $\pm 10\%$ M: $\pm 20\%$		
1.5	1R5			
2	020			
2.2	2R2			
3	030			
3.3	3R3			
4	040			
4.7	4R7			
5	050			
6	060			
6.8	6R8			
7	070			
8	080			
9	090			
10	100			
12	120			
15	150			
18	180			
22	220			
27	270			
33	330			
39	390			
47	470			
56	560			
68	680			
82	820			
100	101			
120	121			
150	151			
180	181			
220	221			
270	271			
330	331			
390	391			
470	471			
560	561			
680	681			
820	821			

电容		电容容差	NP0		X8R			
(pF)	代码		2A (100V)	1H (50V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)
1,000	102	C: $\pm 0.25\text{pF}$ D: $\pm 0.50\text{pF}$ J: $\pm 5\%$ K: $\pm 10\%$ M: $\pm 20\%$						
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							

标准厚度
 0.80 mm



电容
范围图

CGA4(2012)[EIA CC0805]

电容范围图

温度特性: NP0 (0 ± 30ppm/°C)、X8R (±15%)
额定电压: 100V(2A)、50V(1H)、25V(1E)、16V(1C)

电容		电容容差	NP0		X8R			
(pF)	代码		2A (100V)	1H (50V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)
1,000	102	J : ± 5% K : ± 10% M : ± 20%	0.60 mm 0.85 mm 1.25 mm					
1,200	122							
1,500	152							
1,800	182							
2,200	222							
2,700	272			0.60 mm 0.85 mm 1.25 mm				
3,300	332							
3,900	392							
4,700	472							
5,600	562							
6,800	682							
8,200	822							
10,000	103							
15,000	153				0.60 mm 0.85 mm 1.25 mm			
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							

标准厚度
0.60 mm
0.85 mm
1.25 mm



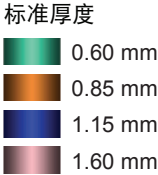
电容
范围图

CGA5(3216)[EIA CC1206]

电容范围图

温度特性: NP0 (0 ± 30ppm/°C)、X8R (±15%)
 额定电压: 100V(2A)、50V(1H)、25V(1E)、16V(1C)

电容		电容容差	NP0		X8R			
(pF)	代码		2A (100V)	1H (50V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)
3,900	392	J : ± 5% K : ± 10% M : ± 20%						
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							
680,000	684							
1,000,000	105							
1,500,000	155							
2,200,000	225							
3,300,000	335							
4,700,000	475							



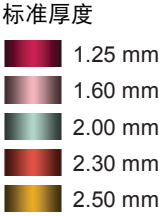
电容
范围图

CGA6(3225)[EIA CC1210]

电容范围图

温度特性: NP0 (0 ± 30ppm/°C)、X8R (±15%)
 额定电压: 100V(2A)、50V(1H)、25V(1E)、16V(1C)

电容		电容容差	NP0		X8R		
(pF)	代码		2A (100V)	1H (50V)	2A (100V)	1E (25V)	1C (16V)
15,000	153	J : ± 5% K : ± 10% M : ± 20%					
22,000	223						
33,000	333						
47,000	473						
68,000	683						
100,000	104						
470,000	474						
680,000	684						
1,500,000	155						
2,200,000	225						
3,300,000	335						
4,700,000	475						
6,800,000	685						
10,000,000	106						





电容
范围图

CGA8(4532)[EIA CC1812]

电容范围图

温度特性: NP0 (0 ± 30ppm/°C)
额定电压: 100V(2A)、50V(1H)

电容		电容容差	NP0		标准厚度
(pF)	代码		2A (100V)	1H (50V)	
47,000	473	J: ± 5%			1.60 mm
68,000	683				2.00 mm
100,000	104				2.50 mm
150,000	154				3.20 mm
220,000	224				



电容
范围图

CGA9(5750)[EIA CC2220]

电容范围图

温度特性: NP0 (0 ± 30ppm/°C)
额定电压: 100V(2A)

电容		电容容差	NP0	标准厚度
(pF)	代码		2A (100V)	
150,000	154	J: ± 5%		2.30 mm



电容 范围表

种类 1 (温度补偿用)

温度特性: NP0 (-55 ~ +150°C、0 ± 30 ppm/°C)

电容	尺寸	厚度 (mm)	电容容差	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
1 pF	1005	0.50 ± 0.05	± 0.25pF		CGA2B2NP01H010C050BA		
	1608	0.80 ± 0.10	± 0.25pF	CGA3E2NP02A010C080AA	CGA3E2NP01H010C080AA		
1.5 pF	1005	0.50 ± 0.05	± 0.25pF		CGA2B2NP01H1R5C050BA		
	1608	0.80 ± 0.10	± 0.25pF	CGA3E2NP02A1R5C080AA	CGA3E2NP01H1R5C080AA		
2 pF	1005	0.50 ± 0.05	± 0.25pF		CGA2B2NP01H020C050BA		
	1608	0.80 ± 0.10	± 0.25pF	CGA3E2NP02A020C080AA	CGA3E2NP01H020C080AA		
2.2 pF	1005	0.50 ± 0.05	± 0.25pF		CGA2B2NP01H2R2C050BA		
	1608	0.80 ± 0.10	± 0.25pF	CGA3E2NP02A2R2C080AA	CGA3E2NP01H2R2C080AA		
3 pF	1005	0.50 ± 0.05	± 0.25pF		CGA2B2NP01H030C050BA		
	1608	0.80 ± 0.10	± 0.25pF	CGA3E2NP02A030C080AA	CGA3E2NP01H030C080AA		
3.3 pF	1005	0.50 ± 0.05	± 0.25pF		CGA2B2NP01H3R3C050BA		
	1608	0.80 ± 0.10	± 0.25pF	CGA3E2NP02A3R3C080AA	CGA3E2NP01H3R3C080AA		
4 pF	1005	0.50 ± 0.05	± 0.25pF		CGA2B2NP01H040C050BA		
	1608	0.80 ± 0.10	± 0.25pF	CGA3E2NP02A040C080AA	CGA3E2NP01H040C080AA		
4.7 pF	1005	0.50 ± 0.05	± 0.25pF		CGA2B2NP01H4R7C050BA		
	1608	0.80 ± 0.10	± 0.25pF	CGA3E2NP02A4R7C080AA	CGA3E2NP01H4R7C080AA		
5 pF	1005	0.50 ± 0.05	± 0.25pF		CGA2B2NP01H050C050BA		
	1608	0.80 ± 0.10	± 0.25pF	CGA3E2NP02A050C080AA	CGA3E2NP01H050C080AA		
6 pF	1005	0.50 ± 0.05	± 0.50pF		CGA2B2NP01H060D050BA		
	1608	0.80 ± 0.10	± 0.50pF	CGA3E2NP02A060D080AA	CGA3E2NP01H060D080AA		
6.8 pF	1005	0.50 ± 0.05	± 0.50pF		CGA2B2NP01H6R8D050BA		
	1608	0.80 ± 0.10	± 0.50pF	CGA3E2NP02A6R8D080AA	CGA3E2NP01H6R8D080AA		
7 pF	1005	0.50 ± 0.05	± 0.50pF		CGA2B2NP01H070D050BA		
	1608	0.80 ± 0.10	± 0.50pF	CGA3E2NP02A070D080AA	CGA3E2NP01H070D080AA		
8 pF	1005	0.50 ± 0.05	± 0.50pF		CGA2B2NP01H080D050BA		
	1608	0.80 ± 0.10	± 0.50pF	CGA3E2NP02A080D080AA	CGA3E2NP01H080D080AA		
9 pF	1005	0.50 ± 0.05	± 0.50pF		CGA2B2NP01H090D050BA		
	1608	0.80 ± 0.10	± 0.50pF	CGA3E2NP02A090D080AA	CGA3E2NP01H090D080AA		
10 pF	1005	0.50 ± 0.05	± 0.50pF		CGA2B2NP01H100D050BA		
	1608	0.80 ± 0.10	± 0.50pF	CGA3E2NP02A100D080AA	CGA3E2NP01H100D080AA		
12 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H120J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A120J080AA	CGA3E2NP01H120J080AA		
15 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H150J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A150J080AA	CGA3E2NP01H150J080AA		
18 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H180J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A180J080AA	CGA3E2NP01H180J080AA		
22 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H220J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A220J080AA	CGA3E2NP01H220J080AA		
27 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H270J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A270J080AA	CGA3E2NP01H270J080AA		
33 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H330J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A330J080AA	CGA3E2NP01H330J080AA		
39 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H390J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A390J080AA	CGA3E2NP01H390J080AA		
47 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H470J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A470J080AA	CGA3E2NP01H470J080AA		
56 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H560J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A560J080AA	CGA3E2NP01H560J080AA		
68 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H680J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A680J080AA	CGA3E2NP01H680J080AA		
82 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H820J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A820J080AA	CGA3E2NP01H820J080AA		
100 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H101J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A101J080AA	CGA3E2NP01H101J080AA		
120 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H121J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A121J080AA	CGA3E2NP01H121J080AA		
150 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H151J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A151J080AA	CGA3E2NP01H151J080AA		
180 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H181J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A181J080AA	CGA3E2NP01H181J080AA		



电容 范围表

种类 1 (温度补偿用)

温度特性: NP0 (-55 ~ +150°C、0 ± 30 ppm/°C)

电容	尺寸	厚度 (mm)	电容容差	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
220 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H221J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A221J080AA	CGA3E2NP01H221J080AA		
270 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H271J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A271J080AA	CGA3E2NP01H271J080AA		
330 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H331J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A331J080AA	CGA3E2NP01H331J080AA		
390 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H391J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A391J080AA	CGA3E2NP01H391J080AA		
470 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H471J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A471J080AA	CGA3E2NP01H471J080AA		
560 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H561J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A561J080AA	CGA3E2NP01H561J080AA		
680 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H681J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A681J080AA	CGA3E2NP01H681J080AA		
820 pF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H821J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A821J080AA	CGA3E2NP01H821J080AA		
1 nF	1005	0.50 ± 0.05	± 5%		CGA2B2NP01H102J050BA		
	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A102J080AA	CGA3E2NP01H102J080AA		
	2012	0.60 ± 0.15	± 5%	CGA4C2NP02A102J060AA			
1.2 nF	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A122J080AA	CGA3E2NP01H122J080AA		
	2012	0.60 ± 0.15	± 5%	CGA4C2NP02A122J060AA			
1.5 nF	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A152J080AA	CGA3E2NP01H152J080AA		
	2012	0.60 ± 0.15	± 5%	CGA4C2NP02A152J060AA			
1.8 nF	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A182J080AA	CGA3E2NP01H182J080AA		
	2012	0.85 ± 0.15	± 5%	CGA4F2NP02A182J085AA			
2.2 nF	1608	0.80 ± 0.10	± 5%	CGA3E2NP02A222J080AA	CGA3E2NP01H222J080AA		
	2012	0.85 ± 0.15	± 5%	CGA4F2NP02A222J085AA			
2.7 nF		0.80 ± 0.10	± 5%		CGA3E2NP01H272J080AA		
	1608	0.80 ± 0.15/-0.1	± 5%	CGA3E2NP02A272J080AA			
	2012	0.60 ± 0.15	± 5%		CGA4C2NP01H272J060AA		
3.3 nF		1.25 ± 0.20	± 5%	CGA4J2NP02A272J125AA			
		0.80 ± 0.10	± 5%		CGA3E2NP01H332J080AA		
	1608	0.80 ± 0.15/-0.1	± 5%	CGA3E2NP02A332J080AA			
3.9 nF		0.60 ± 0.15	± 5%		CGA4C2NP01H332J060AA		
	2012	1.25 ± 0.20	± 5%	CGA4J2NP02A332J125AA			
		0.80 ± 0.10	± 5%		CGA3E2NP01H392J080AA		
4.7 nF		0.60 ± 0.15	± 5%		CGA4C2NP01H392J060AA		
	2012	1.25 ± 0.20	± 5%	CGA4J2NP02A392J125AA			
		0.60 ± 0.15	± 5%	CGA5C2NP02A392J060AA			
4.7 nF	1608	0.80 ± 0.10	± 5%		CGA3E2NP01H472J080AA		
		0.60 ± 0.15	± 5%		CGA4C2NP01H472J060AA		
	2012	1.25 ± 0.20	± 5%	CGA4J2NP02A472J125AA			
5.6 nF		0.60 ± 0.15	± 5%		CGA5C2NP01H472J060AA		
	3216	0.85 ± 0.15	± 5%	CGA5F2NP02A472J085AA			
		0.80 ± 0.10	± 5%		CGA3E2NP01H562J080AA		
5.6 nF	2012	0.60 ± 0.15	± 5%		CGA4C2NP01H562J060AA		
		1.25 ± 0.20	± 5%	CGA4J2NP02A562J125AA			
	3216	0.60 ± 0.15	± 5%		CGA5C2NP01H562J060AA		
6.8 nF		0.85 ± 0.15	± 5%	CGA5F2NP02A562J085AA			
	1608	0.80 ± 0.10	± 5%		CGA3E2NP01H682J080AA		
		0.60 ± 0.15	± 5%		CGA4C2NP01H682J060AA		
6.8 nF	2012	1.25 ± 0.20	± 5%	CGA4J2NP02A682J125AA			
		0.60 ± 0.15	± 5%		CGA5C2NP01H682J060AA		
	3216	1.15 ± 0.15	± 5%	CGA5H2NP02A682J115AA			
8.2 nF	1608	0.80 ± 0.10	± 5%		CGA3E2NP01H822J080AA		
		0.60 ± 0.15	± 5%		CGA4C2NP01H822J060AA		
	2012	1.25 ± 0.20	± 5%	CGA4J2NP02A822J125AA			
8.2 nF		0.60 ± 0.15	± 5%		CGA5C2NP01H822J060AA		
	3216	1.15 ± 0.15	± 5%	CGA5H2NP02A822J115AA			
10 nF	1608	0.80 ± 0.10	± 5%		CGA3E2NP01H103J080AA		
		0.60 ± 0.15	± 5%		CGA4C2NP01H103J060AA		
	2012	1.25 ± 0.20	± 5%	CGA4J2NP02A103J125AA			
10 nF		0.60 ± 0.15	± 5%		CGA5C2NP01H103J060AA		
	3216	1.15 ± 0.15	± 5%	CGA5H2NP02A103J115AA			



电容 范围表

种类 1 (温度补偿用)

温度特性: NP0 (-55 ~ +150°C、0 ± 30 ppm/°C)

电容	尺寸	厚度 (mm)	电容容差	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
15 nF	2012	0.85 ± 0.15	± 5%		CGA4F2NP01H153J085AA		
		0.60 ± 0.15	± 5%		CGA5C2NP01H153J060AA		
	3216	1.15 ± 0.15	± 5%	CGA5H2NP02A153J115AA			
	3225	1.25 ± 0.20	± 5%	CGA6J2NP02A153J125AA			
22 nF	2012	1.25 ± 0.20	± 5%		CGA4J2NP01H223J125AA		
		0.60 ± 0.15	± 5%		CGA5C2NP01H223J060AA		
	3216	1.60 ± 0.20	± 5%	CGA5L2NP02A223J160AA			
		1.25 ± 0.20	± 5%		CGA6J2NP01H223J125AA		
	3225	1.60 ± 0.20	± 5%	CGA6L2NP02A223J160AA			
		1.25 ± 0.20	± 5%		CGA4J2NP01H333J125AA		
33 nF		0.85 ± 0.15	± 5%		CGA5F2NP01H333J085AA		
	3216	1.60 ± 0.3/-0.1	± 5%	CGA5L2NP02A333J160AA			
		1.60 ± 0.20	± 5%		CGA6L2NP01H333J160AA		
	3225	2.00 ± 0.20	± 5%	CGA6M2NP02A333J200AA			
		1.15 ± 0.15	± 5%		CGA5H2NP01H473J115AA		
		2.00 ± 0.20	± 5%		CGA6M2NP01H473J200AA		
47 nF	3225	2.30 ± 0.20	± 5%	CGA6N2NP02A473J230AA			
		1.60 ± 0.20	± 5%		CGA8L2NP01H473J160KA		
	4532	2.00 ± 0.20	± 5%	CGA8M2NP02A473J200KA			
		1.60 ± 0.20	± 5%		CGA5L2NP01H683J160AA		
		2.00 ± 0.20	± 5%		CGA6M2NP01H683J200AA		
	3225	2.50 ± 0.30	± 5%	CGA6P2NP02A683J250AA			
68 nF		1.60 ± 0.20	± 5%		CGA8L2NP01H683J160KA		
	4532	2.50 ± 0.30	± 5%	CGA8P2NP02A683J250KA			
		1.60 ± 0.20	± 5%		CGA5L2NP01H104J160AA		
		2.50 ± 0.30	± 5%		CGA6P2NP01H104J250AA		
	100 nF	2.00 ± 0.20	± 5%		CGA8M2NP01H104J200KA		
		3.20 ± 0.30	± 5%	CGA8R2NP02A104J320KA			
150 nF	4532	2.50 ± 0.30	± 5%		CGA8P2NP01H154J250KA		
	5750	2.30 ± 0.20	± 5%	CGA9N2NP02A154J230KA			
	220 nF	4532	3.20 ± 0.30		CGA8R2NP01H224J320KA		

种类 2 (高介电率类)

温度特性: X8R (-55 ~ +150°C、±15%)

电容	尺寸	厚度 (mm)	电容容差	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
150 pF	1005	0.50 ± 0.05	± 10%		CGA2B2X8R1H151K050BA		
			± 20%		CGA2B2X8R1H151M050BA		
220 pF	1005	0.50 ± 0.05	± 10%		CGA2B2X8R1H221K050BA		
			± 20%		CGA2B2X8R1H221M050BA		
330 pF	1005	0.50 ± 0.05	± 10%		CGA2B2X8R1H331K050BA		
			± 20%		CGA2B2X8R1H331M050BA		
470 pF	1005	0.50 ± 0.05	± 10%		CGA2B2X8R1H471K050BA		
			± 20%		CGA2B2X8R1H471M050BA		
680 pF	1005	0.50 ± 0.05	± 10%		CGA2B2X8R1H681K050BA		
			± 20%		CGA2B2X8R1H681M050BA		
1 nF	1005	0.50 ± 0.05	± 10%		CGA2B2X8R1H102K050BA		
			± 20%		CGA2B2X8R1H102M050BA		
	1608	0.80 ± 0.10	± 10%	CGA3E2X8R2A102K080AA	CGA3E2X8R1H102K080AA		
			± 20%	CGA3E2X8R2A102M080AA	CGA3E2X8R1H102M080AA		
1.5 nF	1005	0.50 ± 0.05	± 10%		CGA2B2X8R1H152K050BA		
			± 20%		CGA2B2X8R1H152M050BA		
	1608	0.80 ± 0.10	± 10%	CGA3E2X8R2A152K080AA	CGA3E2X8R1H152K080AA		
			± 20%	CGA3E2X8R2A152M080AA	CGA3E2X8R1H152M080AA		
2.2 nF	1005	0.50 ± 0.05	± 10%		CGA2B2X8R1H222K050BA		
			± 20%		CGA2B2X8R1H222M050BA		
	1608	0.80 ± 0.10	± 10%	CGA3E2X8R2A222K080AA	CGA3E2X8R1H222K080AA		
			± 20%	CGA3E2X8R2A222M080AA	CGA3E2X8R1H222M080AA		
3.3 nF	1005	0.50 ± 0.05	± 10%		CGA2B2X8R1H332K050BA		
			± 20%		CGA2B2X8R1H332M050BA		
	1608	0.80 ± 0.10	± 10%	CGA3E2X8R2A332K080AA	CGA3E2X8R1H332K080AA		
			± 20%	CGA3E2X8R2A332M080AA	CGA3E2X8R1H332M080AA		



电容 范围表

种类 2 (高介电率类)

温度特性: X8R (-55 ~ +150°C、±15%)

电容	尺寸	厚度 (mm)	电容量差	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
4.7 nF	1005	0.50 ± 0.05	± 10%		CGA2B2X8R1H472K050BA		
			± 20%		CGA2B2X8R1H472M050BA		
	1608	0.80 ± 0.10	± 10%	CGA3E2X8R2A472K080AA	CGA3E2X8R1H472K080AA		
			± 20%	CGA3E2X8R2A472M080AA	CGA3E2X8R1H472M080AA		
6.8 nF	1005	0.50 ± 0.05	± 10%		CGA2B3X8R1H682K050BB	CGA2B2X8R1E682K050BA	
			± 20%		CGA2B3X8R1H682M050BB	CGA2B2X8R1E682M050BA	
	1608	0.80 ± 0.10	± 10%	CGA3E2X8R2A682K080AA	CGA3E2X8R1H682K080AA		
			± 20%	CGA3E2X8R2A682M080AA	CGA3E2X8R1H682M080AA		
10 nF	1005	0.50 ± 0.05	± 10%		CGA2B3X8R1H103K050BB	CGA2B2X8R1E103K050BA	
			± 20%		CGA2B3X8R1H103M050BB	CGA2B2X8R1E103M050BA	
	1608	0.80 ± 0.10	± 10%	CGA3E2X8R2A103K080AA	CGA3E2X8R1H103K080AA		
			± 20%	CGA3E2X8R2A103M080AA	CGA3E2X8R1H103M080AA		
15 nF	1005	0.50 ± 0.05	± 10%			CGA2B3X8R1E153K050BB	
			± 20%			CGA2B3X8R1E153M050BB	
	1608	0.80 ± 0.10	± 10%	CGA3E2X8R2A153K080AA	CGA3E2X8R1H153K080AA		
			± 20%	CGA3E2X8R2A153M080AA	CGA3E2X8R1H153M080AA		
22 nF	1005	0.50 ± 0.05	± 10%			CGA2B3X8R1E223K050BB	
			± 20%			CGA2B3X8R1E223M050BB	
	1608	0.80 ± 0.10	± 10%	CGA3E3X8R2A223K080AB	CGA3E2X8R1H223K080AA		
			± 20%	CGA3E3X8R2A223M080AB	CGA3E2X8R1H223M080AA		
33 nF	1005	0.50 ± 0.05	± 10%				
			± 20%				
	1608	0.80 ± 0.10	± 10%	CGA3E3X8R2A333K080AB	CGA3E2X8R1H333K080AA		
			± 20%	CGA3E3X8R2A333M080AB	CGA3E2X8R1H333M080AA		
47 nF	1005	0.50 ± 0.05	± 10%				CGA2B3X8R1C333K050BB
			± 20%				CGA2B3X8R1C333M050BB
	1608	0.80 ± 0.10	± 10%	CGA3E3X8R2A333K080AB	CGA3E2X8R1H333K080AA		
			± 20%	CGA3E3X8R2A333M080AB	CGA3E2X8R1H333M080AA		
68 nF	1005	0.50 ± 0.05	± 10%				CGA2B3X8R1C473K050BB
			± 20%				CGA2B3X8R1C473M050BB
	1608	0.80 ± 0.10	± 10%		CGA3E2X8R1H473K080AA		
			± 20%		CGA3E2X8R1H473M080AA		
100 nF	1005	0.50 ± 0.05	± 10%				
			± 20%				
	1608	0.80 ± 0.10	± 10%	CGA4J3X8R2A473K125AB			
			± 20%	CGA4J3X8R2A473M125AB			
150 nF	1005	0.50 ± 0.05	± 10%				
			± 20%				
	1608	0.80 ± 0.10	± 10%		CGA3E3X8R1H683K080AB	CGA3E2X8R1E683K080AA	
			± 20%		CGA3E3X8R1H683M080AB	CGA3E2X8R1E683M080AA	
220 nF	1005	0.50 ± 0.05	± 10%				
			± 20%				
	1608	0.80 ± 0.10	± 10%	CGA4J3X8R2A683K125AB	CGA4J2X8R1H683K125AA		
			± 20%	CGA4J3X8R2A683M125AB	CGA4J2X8R1H683M125AA		
330 nF	1005	0.50 ± 0.05	± 10%				
			± 20%				
	1608	0.80 ± 0.10	± 10%	CGA5H2X8R2A683K115AA			
			± 20%	CGA5H2X8R2A683M115AA			
470 nF	1005	0.50 ± 0.05	± 10%		CGA3E3X8R1H104K080AB	CGA3E2X8R1E104K080AA	
			± 20%		CGA3E3X8R1H104M080AB	CGA3E2X8R1E104M080AA	
	1608	0.80 ± 0.10	± 10%	CGA4J2X8R2A104K125AA			
			± 20%	CGA4J2X8R2A104M125AA			
680 nF	1005	0.50 ± 0.05	± 10%				
			± 20%				
	1608	0.80 ± 0.10	± 10%		CGA3E3X8R1E154K080AB		
			± 20%		CGA3E3X8R1E154M080AB		
1000 nF	1005	0.50 ± 0.05	± 10%		CGA4J3X8R1H154K125AB		
			± 20%		CGA4J3X8R1H154M125AB		
	1608	0.80 ± 0.10	± 10%	CGA5L2X8R2A154K160AA			
			± 20%	CGA5L2X8R2A154M160AA			



电容 范围表

种类 2 (高介电率类)

温度特性: X8R (-55 ~ +150°C、±15%)

电容	尺寸	厚度 (mm)	电容容差	型号			
				额定电压 E _{dc} : 100V	额定电压 E _{dc} : 50V	额定电压 E _{dc} : 25V	额定电压 E _{dc} : 16V
220 nF	1608	0.80 ± 0.10	± 10%			CGA3E3X8R1E224K080AB	
			± 20%			CGA3E3X8R1E224M080AB	
	2012	1.25 ± 0.20	± 10%		CGA4J3X8R1H224K125AB	CGA4J2X8R1E224K125AA	
			± 20%		CGA4J3X8R1H224M125AB	CGA4J2X8R1E224M125AA	
		1.15 ± 0.15	± 10%		CGA5H2X8R1H224K115AA		
	3216		± 20%		CGA5H2X8R1H224M115AA		
330 nF		1.60 ± 0.20	± 10%	CGA5L3X8R2A224K160AB			
			± 20%	CGA5L3X8R2A224M160AB			
	1608	0.80 ± 0.10	± 10%				CGA3E3X8R1C334K080AB
			± 20%				CGA3E3X8R1C334M080AB
	2012	1.25 ± 0.20	± 10%			CGA4J2X8R1E334K125AA	
			± 20%			CGA4J2X8R1E334M125AA	
470 nF	3216	1.60 ± 0.20	± 10%	CGA5L3X8R2A334K160AB	CGA5L2X8R1H334K160AA		
			± 20%	CGA5L3X8R2A334M160AB	CGA5L2X8R1H334M160AA		
	1608	0.80 +0.15/-0.10	± 10%				CGA3E3X8R1C474K080AB
			± 20%				CGA3E3X8R1C474M080AB
	2012	1.25 ± 0.20	± 10%			CGA4J3X8R1E474K125AB	
			± 20%			CGA4J3X8R1E474M125AB	
680 nF	3216	1.60 ± 0.20	± 10%		CGA5L2X8R1H474K160AA		
			± 20%		CGA5L2X8R1H474M160AA		
	3225	2.00 ± 0.20	± 10%	CGA6M3X8R2A474K200AB			
			± 20%	CGA6M3X8R2A474M200AB			
	2012	1.25 ± 0.20	± 10%				CGA4J3X8R1C684K125AB
			± 20%				CGA4J3X8R1C684M125AB
1 µF		1.15 ± 0.15	± 10%			CGA5H2X8R1E684K115AA	
			± 20%			CGA5H2X8R1E684M115AA	
	3216	1.60 ± 0.20	± 10%		CGA5L3X8R1H684K160AB		
			± 20%		CGA5L3X8R1H684M160AB		
	3225	2.50 ± 0.30	± 10%	CGA6P3X8R2A684K250AB			
			± 20%	CGA6P3X8R2A684M250AB			
1.5 µF	2012	1.25 ± 0.20	± 10%				CGA4J3X8R1C105K125AB
			± 20%				CGA4J3X8R1C105M125AB
	3216	1.60 ± 0.20	± 10%		CGA5L3X8R1H105K160AB	CGA5L2X8R1E105K160AA	
			± 20%		CGA5L3X8R1H105M160AB	CGA5L2X8R1E105M160AA	
		1.60 ± 0.20	± 10%			CGA5L3X8R1E155K160AB	
			± 20%			CGA5L3X8R1E155M160AB	
2.2 µF	3225	1.60 ± 0.20	± 10%			CGA6L2X8R1E155K160AA	
			± 20%			CGA6L2X8R1E155M160AA	
	3216	1.60 ± 0.20	± 10%		CGA5L3X8R1E225K160AB		
			± 20%		CGA5L3X8R1E225M160AB		
	3225	2.00 ± 0.20	± 10%		CGA6M2X8R1E225K200AA		
			± 20%		CGA6M2X8R1E225M200AA		
3.3 µF	3216	1.60 ± 0.20	± 10%				CGA5L3X8R1C335K160AB
			± 20%				CGA5L3X8R1C335M160AB
	3225	2.50 ± 0.30	± 10%		CGA6P2X8R1E335K250AA		
			± 20%		CGA6P2X8R1E335M250AA		
		1.60 ± 0.20	± 10%				CGA5L3X8R1C475K160AB
			± 20%				CGA5L3X8R1C475M160AB
4.7 µF	3225	2.50 ± 0.30	± 10%		CGA6P3X8R1E475K250AB		
			± 20%		CGA6P3X8R1E475M250AB		
	3216	1.60 ± 0.20	± 10%				CGA5L3X8R1C685K200AB
			± 20%				CGA5L3X8R1C685M200AB
	3225	2.00 ± 0.20	± 10%				CGA6M3X8R1C685K200AB
			± 20%				CGA6M3X8R1C685M200AB
6.8 µF	3225	2.50 ± 0.30	± 10%				CGA6P3X8R1C106K250AB
			± 20%				CGA6P3X8R1C106M250AB
	3216	1.60 ± 0.20	± 10%				CGA5L3X8R1C475K160AB
			± 20%				CGA5L3X8R1C475M160AB
	3225	2.50 ± 0.30	± 10%		CGA6P3X8R1E475K250AB		
			± 20%		CGA6P3X8R1E475M250AB		
10 µF	3216	1.60 ± 0.20	± 10%				CGA5L3X8R1C475K160AB
			± 20%				CGA5L3X8R1C475M160AB
	3225	2.50 ± 0.30	± 10%		CGA6P3X8R1E475K250AB		
			± 20%		CGA6P3X8R1E475M250AB		
	3216	1.60 ± 0.20	± 10%				CGA5L3X8R1C475K160AB
			± 20%				CGA5L3X8R1C475M160AB