



## 积层贴片陶瓷片式电容器

### C系列 一般等级 高温保证用

Type:

C1005 [EIA CC0402]  
C1608 [EIA CC0603]  
C2012 [EIA CC0805]  
C3216 [EIA CC1206]  
C3225 [EIA CC1210]  
C4532 [EIA CC1812]  
C5750 [EIA CC2220]

Issue date:  
Jun 2015



## 使用注意事项

使用本产品前，请务必阅读

### 安全注意事项



#### 注意

1. 计划将本产品目录中记载的产品用于可能对人身安全或对社会造成重大损失的用途时，请务必通知本公司的销售窗口。
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实施权办理许可。
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。

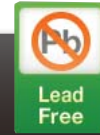
新目录型号将在以后所有根据产品目录订货时使用，但不适用于OEM订购。

目录型号的最后5个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。

(构成例)

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



## C 系列 高温保证用

Type: C1005 [EIA CC0402]、C1608 [EIA CC0603]、C2012 [EIA CC0805]、  
C3216 [EIA CC1206]、C3225 [EIA CC1210]、C4532 [EIA CC1812]、C5750 [EIA CC2220]



### 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。

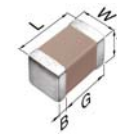
参数	规格
温度特性	-55 to +150°C ΔC/C: ±15% 或 0±30ppm
工作温度	-55 to +150°C
耗散因数	5% max.
绝缘电阻	10 GΩ 或 500 MΩ • μF min.
耐电压	额定电压的 2.5倍 或 3倍 1 ~ 5秒 充电、放电 ≤ 50 mA

### 用途



- 车载用（发动机室）
- 高温环境下使用的测量仪器
- LCD显示器
- 传感器模块
- 对高温环境中动作设备进行去耦、平滑

### 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



### 目录型号的识别法

## C • 3225 • 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
C1005	1.00 ± 0.05	0.50 ± 0.05	0.10 min.
C1608	1.60 ± 0.10	0.80 ± 0.10	0.20 min.
C2012	2.00 ± 0.20	1.25 ± 0.20	0.20 min.
C3216	3.20 ± 0.20	1.60 ± 0.20	0.20 min.
C3225	3.20 ± 0.40	2.50 ± 0.30	0.20 min.
C4532	4.50 ± 0.40	3.20 ± 0.40	0.20 min.
C5750	5.70 ± 0.40	5.00 ± 0.40	0.20 min.

\* 尺寸公差为代表值。

#### 温度特性

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

#### 额定电压 (直流)

代码	电压 (直流)	代码	电压 (直流)
1C	16V	2A	100V
1E	25V	2E	250V
1H	50V	2W	450V
		2J	630V

#### 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 = 0.2pF; 103 = 10,000pF; 105 = 1,000,000pF = 1,000nF = 1μF

#### 电容容差

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

#### 标称厚度

代码	厚度	代码	厚度
050	0.50 mm	230	2.30 mm
060	0.60 mm	250	2.50 mm
080	0.80 mm	280	2.80 mm
085	0.85 mm	320	3.20 mm
115	1.15 mm		
125	1.25 mm		
160	1.60 mm		
200	2.00 mm		

#### 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

#### 特殊指定代码

代码	说明
A、B	本公司内部管理符号



## 电容 范围图

## EIA CC0402 [C1005]

### 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		X8R			
(pF)	代码		2A (100V)	1H (50V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)
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							
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

## EIA CC0603 [C1608]

### 电容范围图

温度特性: NP0 (0 ± 30ppm/°C)、X8R (±15%)  
 额定电压: 250V(2E)、100V(2A)、50V(1H)、25V(1E)、16V(1C)

电容		电容容差	NP0		
(pF)	代码		2E (250V)	2A (100V)	1H (50V)
1	010	C: ± 0.25pF D: ± 0.50pF J: ± 5%			
2	1R5				
2	020				
2	2R2				
3	030				
3	3R3				
4	040				
5	4R7				
5	050				
6	060				
7	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				
1,200	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				

电容		电容容差	X8R			
(pF)	代码		2A (100V)	1H (50V)	1E (25V)	1C (16V)
1,000	102	K: ± 10% M: ± 20%				
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					
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



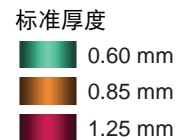
电容  
范围图

## EIA CC0805 [C2012]

### 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: 450V(2W)、250V(2E)、100V(2A)、50V(1H)、25V(1E)、16V(1C)

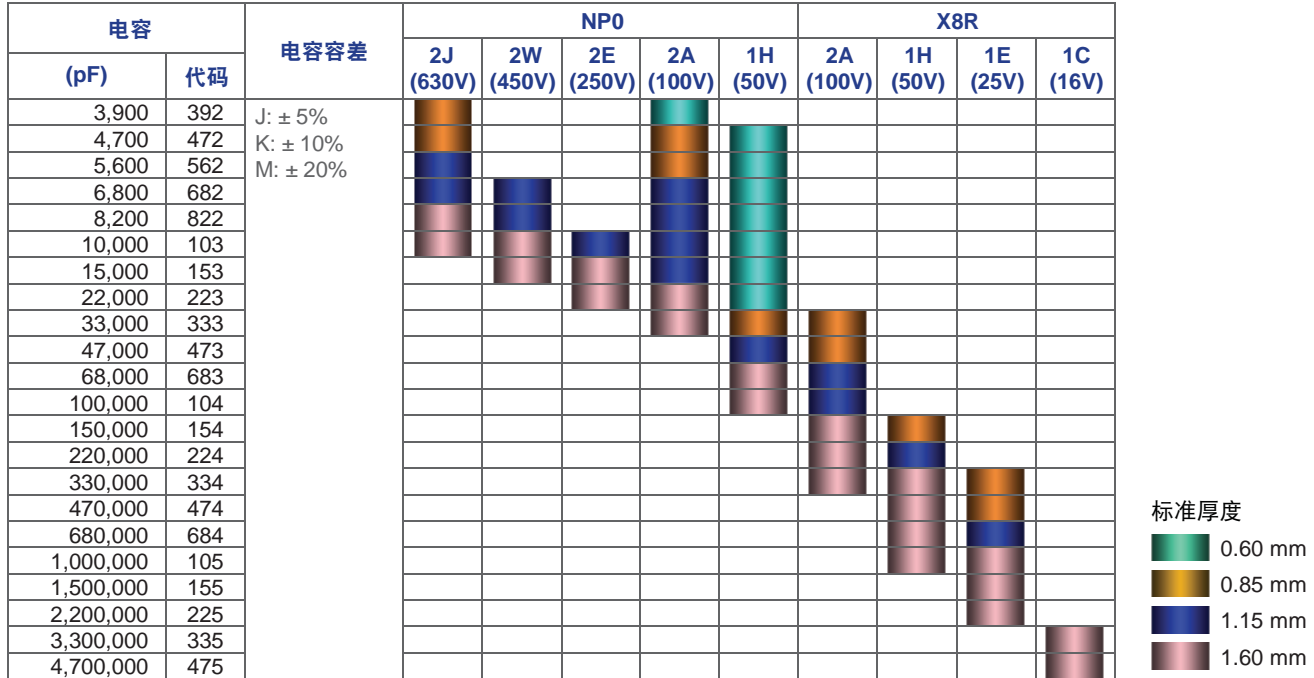


## 电容范围图

## EIA CC1206 [C3216]

### 电容范围图

温度特性: NP0 (0 ± 30ppm/°C)、X8R (±15%)  
 额定电压: 630V(2J)、450V(2W)、250V(2E)、100V(2A)、50V(1H)、25V(1E)、16V(1C)

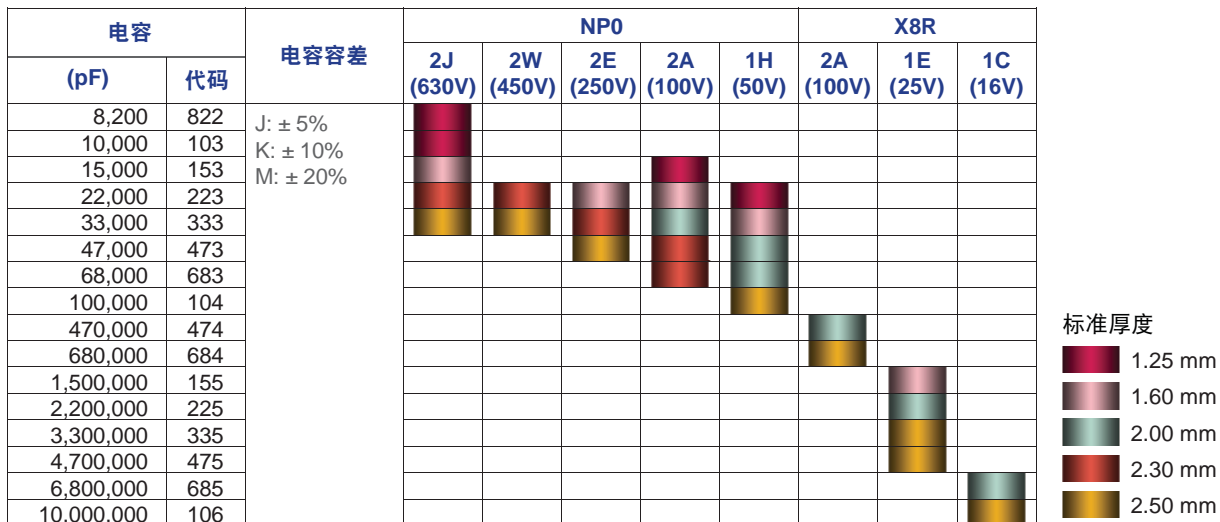


## 电容范围图

## EIA CC1210 [C3225]

### 电容范围图

温度特性: NP0 (0 ± 30ppm/°C)、X8R (±15%)  
 额定电压: 630V(2J)、450V(2W)、250V(2E)、100V(2A)、50V(1H)、25V(1E)、16V(1C)





电容  
范围图

## EIA CC1812 [C4532]

### 电容范围图

温度特性: NP0 ( $0 \pm 30\text{ppm}/^\circ\text{C}$ )  
 额定电压: 630V(2J)、450V(2W)、250V(2E)、100V(2A)、50V(1H)

电容		电容容差	NP0					标准厚度
(pF)	代码		2J (630V)	2W (450V)	2E (250V)	2A (100V)	1H (50V)	
33,000	333	J: $\pm 5\%$						
47,000	473							
68,000	683							
100,000	104							
150,000	154							
220,000	224							



电容  
范围图

## EIA CC2220 [C5750]

### 电容范围图

温度特性: NP0 ( $0 \pm 30\text{ppm}/^\circ\text{C}$ )  
 额定电压: 450V(2W)、250V(2E)、100V(2A)

电容		电容容差	NP0			标准厚度
(pF)	代码		2W (450V)	2E (250V)	2A (100V)	
100,000	104	J: $\pm 5\%$				
150,000	154					





## 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	目录型号				
				额定电压 Edc : 630V	额定电压 Edc : 450V	额定电压 Edc : 250V	额定电压 Edc : 100V	额定电压 Edc : 50V
1 pF	1005	0.50 ± 0.05	± 0.25pF					C1005NP01H010C050BA
	1608	0.80 ± 0.10	± 0.25pF				C1608NP02A010C080AA	C1608NP01H010C080AA
1.5 pF	1005	0.50 ± 0.05	± 0.25pF					C1005NP01H1R5C050BA
	1608	0.80 ± 0.10	± 0.25pF				C1608NP02A1R5C080AA	C1608NP01H1R5C080AA
2 pF	1005	0.50 ± 0.05	± 0.25pF					C1005NP01H020C050BA
	1608	0.80 ± 0.10	± 0.25pF				C1608NP02A020C080AA	C1608NP01H020C080AA
2.2 pF	1005	0.50 ± 0.05	± 0.25pF					C1005NP01H2R2C050BA
	1608	0.80 ± 0.10	± 0.25pF				C1608NP02A2R2C080AA	C1608NP01H2R2C080AA
3 pF	1005	0.50 ± 0.05	± 0.25pF					C1005NP01H030C050BA
	1608	0.80 ± 0.10	± 0.25pF				C1608NP02A030C080AA	C1608NP01H030C080AA
3.3 pF	1005	0.50 ± 0.05	± 0.25pF					C1005NP01H3R3C050BA
	1608	0.80 ± 0.10	± 0.25pF				C1608NP02A3R3C080AA	C1608NP01H3R3C080AA
4 pF	1005	0.50 ± 0.05	± 0.25pF					C1005NP01H040C050BA
	1608	0.80 ± 0.10	± 0.25pF				C1608NP02A040C080AA	C1608NP01H040C080AA
4.7 pF	1005	0.50 ± 0.05	± 0.25pF					C1005NP01H4R7C050BA
	1608	0.80 ± 0.10	± 0.25pF				C1608NP02A4R7C080AA	C1608NP01H4R7C080AA
5 pF	1005	0.50 ± 0.05	± 0.25pF					C1005NP01H050C050BA
	1608	0.80 ± 0.10	± 0.25pF				C1608NP02A050C080AA	C1608NP01H050C080AA
6 pF	1005	0.50 ± 0.05	± 0.50pF					C1005NP01H060D050BA
	1608	0.80 ± 0.10	± 0.50pF				C1608NP02A060D080AA	C1608NP01H060D080AA
6.8 pF	1005	0.50 ± 0.05	± 0.50pF					C1005NP01H6R8D050BA
	1608	0.80 ± 0.10	± 0.50pF				C1608NP02A6R8D080AA	C1608NP01H6R8D080AA
7 pF	1005	0.50 ± 0.05	± 0.50pF					C1005NP01H070D050BA
	1608	0.80 ± 0.10	± 0.50pF				C1608NP02A070D080AA	C1608NP01H070D080AA
8 pF	1005	0.50 ± 0.05	± 0.50pF					C1005NP01H080D050BA
	1608	0.80 ± 0.10	± 0.50pF				C1608NP02A080D080AA	C1608NP01H080D080AA
9 pF	1005	0.50 ± 0.05	± 0.50pF					C1005NP01H090D050BA
	1608	0.80 ± 0.10	± 0.50pF				C1608NP02A090D080AA	C1608NP01H090D080AA
10 pF	1005	0.50 ± 0.05	± 0.50pF					C1005NP01H100D050BA
	1608	0.80 ± 0.10	± 0.50pF				C1608NP02A100D080AA	C1608NP01H100D080AA
12 pF	1005	0.50 ± 0.05	± 5%					C1005NP01H120J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A120J080AA	C1608NP01H120J080AA
15 pF	1005	0.50 ± 0.05	± 5%					C1005NP01H150J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A150J080AA	C1608NP01H150J080AA
18 pF	1005	0.50 ± 0.05	± 5%					C1005NP01H180J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A180J080AA	C1608NP01H180J080AA
22 pF	1005	0.50 ± 0.05	± 5%					C1005NP01H220J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A220J080AA	C1608NP01H220J080AA
27 pF	1005	0.50 ± 0.05	± 5%					C1005NP01H270J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A270J080AA	C1608NP01H270J080AA
33 pF	1005	0.50 ± 0.05	± 5%					C1005NP01H330J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A330J080AA	C1608NP01H330J080AA
39 pF	1005	0.50 ± 0.05	± 5%					C1005NP01H390J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A390J080AA	C1608NP01H390J080AA
47 pF	1005	0.50 ± 0.05	± 5%					C1005NP01H470J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A470J080AA	C1608NP01H470J080AA
56 pF	1005	0.50 ± 0.05	± 5%					C1005NP01H560J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A560J080AA	C1608NP01H560J080AA
68 pF	1005	0.50 ± 0.05	± 5%					C1005NP01H680J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A680J080AA	C1608NP01H680J080AA
82 pF	1005	0.50 ± 0.05	± 5%					C1005NP01H820J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A820J080AA	C1608NP01H820J080AA
100 pF	1005	0.50 ± 0.05	± 5%					C1005NP02A101J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A101J080AA	C1608NP01H101J080AA
	2012	0.60 ± 0.15	± 5%		C2012NP02W101J060AA			
120 pF	1005	0.50 ± 0.05	± 5%					C1005NP02A121J050BA
	1608	0.80 ± 0.10	± 5%					C1608NP02A121J080AA
	2012	0.60 ± 0.15	± 5%		C2012NP02W121J060AA			
150 pF	1005	0.50 ± 0.05	± 5%					C1005NP02A151J050BA
	1608	0.80 ± 0.10	± 5%					C1608NP02A151J080AA
	2012	0.60 ± 0.15	± 5%		C2012NP02W151J060AA			
180 pF	1005	0.50 ± 0.05	± 5%					C1005NP02A181J050BA
	1608	0.80 ± 0.10	± 5%					C1608NP02A181J080AA
	2012	0.60 ± 0.15	± 5%		C2012NP02W181J060AA			



## 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	目录型号				
				额定电压 Edc : 630V	额定电压 Edc : 450V	额定电压 Edc : 250V	额定电压 Edc : 100V	额定电压 Edc : 50V
220 pF	1005	0.50 ± 0.05	± 5%				C1005NP02A221J050BA	C1005NP01H221J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A221J080AA	C1608NP01H221J080AA
	2012	0.60 ± 0.15	± 5%	C2012NP02W221J060AA				
270 pF	1005	0.50 ± 0.05	± 5%				C1005NP02A271J050BA	C1005NP01H271J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A271J080AA	C1608NP01H271J080AA
	2012	0.60 ± 0.15	± 5%	C2012NP02W271J060AA				
330 pF	1005	0.50 ± 0.05	± 5%				C1005NP02A331J050BA	C1005NP01H331J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A331J080AA	C1608NP01H331J080AA
	2012	0.60 ± 0.15	± 5%	C2012NP02W331J060AA				
390 pF	1005	0.50 ± 0.05	± 5%				C1005NP02A391J050BA	C1005NP01H391J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A391J080AA	C1608NP01H391J080AA
	2012	0.60 ± 0.15	± 5%	C2012NP02W391J060AA				
470 pF	1005	0.50 ± 0.05	± 5%				C1005NP02A471J050BA	C1005NP01H471J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A471J080AA	C1608NP01H471J080AA
	2012	0.60 ± 0.15	± 5%	C2012NP02W471J060AA				
560 pF	1005	0.50 ± 0.05	± 5%					C1005NP01H561J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A561J080AA	C1608NP01H561J080AA
	2012	0.60 ± 0.15	± 5%	C2012NP02W561J060AA				
680 pF	1005	0.50 ± 0.05	± 5%					C1005NP01H681J050BA
	1608	0.80 ± 0.10	± 5%				C1608NP02A681J080AA	C1608NP01H681J080AA
	2012	0.60 ± 0.15	± 5%	C2012NP02W681J060AA				
820 pF	1005	0.50 ± 0.05	± 5%					C1005NP01H821J050BA
	1608	0.80 ± 0.10	± 5%		C1608NP02E821J080AA	C1608NP02A821J080AA	C1608NP01H821J080AA	
	2012	0.60 ± 0.15	± 5%	C2012NP02W821J060AA				
1 nF	1005	0.50 ± 0.05	± 5%					C1005NP01H102J050BA
	1608	0.80 ± 0.10	± 5%		C1608NP02E102J080AA	C1608NP02A102J080AA	C1608NP01H102J080AA	
	2012	0.60 ± 0.15	± 5%	C2012NP02W102J060AA				
1.2 nF	1608	0.80 ± 0.10	± 5%		C1608NP02E122J080AA	C1608NP02A122J080AA	C1608NP01H122J080AA	
	2012	0.60 ± 0.15	± 5%	C2012NP02W122J060AA				
	1608	0.80 ± 0.10	± 5%		C1608NP02E152J080AA	C1608NP02A152J080AA	C1608NP01H152J080AA	
1.5 nF	2012	0.60 ± 0.15	± 5%	C2012NP02W152J060AA				
		0.85 ± 0.15	± 5%	C2012NP02W152J085AA				
	1608	0.80 ± 0.10	± 5%		C1608NP02E182J080AA	C1608NP02A182J080AA	C1608NP01H182J080AA	
1.8 nF	2012	0.85 ± 0.15	± 5%	C2012NP02W182J085AA				
	1608	0.80 ± 0.10	± 5%		C1608NP02E222J080AA	C1608NP02A222J080AA	C1608NP01H222J080AA	
	2012	0.85 ± 0.15	± 5%	C2012NP02W222J085AA				
2.7 nF	1608	0.80 ± 0.10	± 5%					C1608NP01H272J080AA
		0.80 + 0.15/-0.1	± 5%				C1608NP02A272J080AA	
	2012	0.60 ± 0.15	± 5%	C2012NP02W272J125AA				
3.3 nF		1.25 ± 0.20	± 5%	C2012NP02A272J125AA				
	1608	0.80 ± 0.10	± 5%					C1608NP01H332J080AA
		0.80 + 0.15/-0.1	± 5%				C1608NP02A332J080AA	
3.9 nF		0.60 ± 0.15	± 5%					C2012NP01H332J060AA
	2012	0.85 ± 0.15	± 5%	C2012NP02E332J085AA				
		1.25 ± 0.20	± 5%	C2012NP02W332J125AA				
3.9 nF		1.25 ± 0.20	± 5%	C2012NP02A332J125AA				
	1608	0.80 ± 0.10	± 5%					C1608NP01H392J080AA
		0.60 ± 0.15	± 5%					C2012NP01H392J060AA
3.9 nF	2012	1.25 ± 0.20	± 5%	C2012NP02W392J125AA				
		0.60 ± 0.15	± 5%	C2012NP02E392J125AA	C2012NP02A392J125AA	C2012NP02A392J125AA		
	3216	0.85 ± 0.15	± 5%	C3216NP02A392J060AA				
4.7 nF		0.85 ± 0.15	± 5%	C3216NP02J392J085AA				
	1608	0.80 ± 0.10	± 5%					C1608NP01H472J080AA
		0.60 ± 0.15	± 5%					C2012NP01H472J060AA
4.7 nF	2012	1.25 ± 0.20	± 5%	C2012NP02W472J125AA				
		0.60 ± 0.15	± 5%	C2012NP02E472J125AA	C2012NP02A472J125AA	C2012NP02A472J125AA		
	3216	0.85 ± 0.15	± 5%	C3216NP02J472J085AA				
5.6 nF		0.85 ± 0.15	± 5%	C3216NP02A472J085AA				
	1608	0.80 ± 0.10	± 5%					C1608NP01H562J080AA
		0.60 ± 0.15	± 5%					C2012NP01H562J060AA
5.6 nF	2012	1.25 ± 0.20	± 5%	C2012NP02W562J125AA				
		0.60 ± 0.15	± 5%	C2012NP02E562J125AA	C2012NP02A562J125AA	C2012NP02A562J125AA		
	3216	0.85 ± 0.15	± 5%	C3216NP02A562J085AA				
	1.15 ± 0.15	± 5%	C3216NP02J562J115AA					



## 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	目录型号				
				额定电压 Edc : 630V	额定电压 Edc : 450V	额定电压 Edc : 250V	额定电压 Edc : 100V	额定电压 Edc : 50V
6.8 nF	1608	0.80 ± 0.10	± 5%					C1608NP01H682J080AA
		0.60 ± 0.15	± 5%					C2012NP01H682J060AA
	2012	1.25 ± 0.20	± 5%			C2012NP02E682J125AA	C2012NP02A682J125AA	
		0.60 ± 0.15	± 5%					C3216NP01H682J060AA
		1.15 ± 0.15	± 5%	C3216NP02J682J115AA	C3216NP02W682J115AA		C3216NP02A682J115AA	
8.2 nF	1608	0.80 ± 0.10	± 5%					C1608NP01H822J080AA
		0.60 ± 0.15	± 5%					C2012NP01H822J060AA
	2012	1.25 ± 0.20	± 5%			C2012NP02E822J125AA	C2012NP02A822J125AA	
		0.60 ± 0.15	± 5%					C3216NP01H822J060AA
		1.15 ± 0.15	± 5%		C3216NP02W822J115AA		C3216NP02A822J115AA	
3216	1.60 ± 0.20	± 5%	C3216NP02J822J160AA					
	1.25 ± 0.20	± 5%	C3225NP02J822J125AA					
	1.60 ± 0.10	± 5%						
10 nF	1608	0.80 ± 0.10	± 5%					C1608NP01H103J080AA
		0.60 ± 0.15	± 5%					C2012NP01H103J060AA
	2012	1.25 ± 0.20	± 5%			C2012NP02E103J125AA	C2012NP02A103J125AA	
		0.60 ± 0.15	± 5%					C3216NP01H103J060AA
		1.15 ± 0.15	± 5%			C3216NP02E103J115AA	C3216NP02A103J115AA	
3216	1.60 ± 0.20	± 5%	C3216NP02J103J160AA	C3216NP02W103J160AA				
	1.25 ± 0.20	± 5%	C3225NP02J103J125AA					
	1.60 ± 0.10	± 5%						
15 nF	2012	0.85 ± 0.15	± 5%					C2012NP01H153J085AA
		0.60 ± 0.15	± 5%					C3216NP01H153J060AA
	3216	1.15 ± 0.15	± 5%				C3216NP02A153J115AA	
		1.60 ± 0.20	± 5%		C3216NP02W153J160AA	C3216NP02E153J160AA		
		1.25 ± 0.20	± 5%				C3225NP02A153J125AA	
3225	1.60 ± 0.20	± 5%	C3225NP02J153J160AA					
22 nF	2012	1.25 ± 0.20	± 5%					C2012NP01H223J125AA
		0.60 ± 0.15	± 5%					C3216NP01H223J060AA
	3216	1.60 ± 0.20	± 5%			C3216NP02E223J160AA	C3216NP02A223J160AA	
		1.25 ± 0.20	± 5%					C3225NP01H223J125AA
		1.60 ± 0.20	± 5%		C3225NP02E223J160AA	C3225NP02A223J160AA		
3225	2.30 ± 0.20	± 5%	C3225NP02J223J230AA	C3225NP02W223J230AA				
	1.25 ± 0.20	± 5%						
	0.85 ± 0.15	± 5%						
33 nF	2012	1.25 ± 0.20	± 5%					C2012NP01H333J125AA
		0.60 ± 0.15	± 5%					C3216NP01H333J060AA
	3216	1.60 ± 0.20	± 5%					C3216NP02A333J160AA
		1.60 ± 0.20	± 5%					C3225NP01H333J160AA
		2.00 ± 0.20	± 5%				C3225NP02A333J200AA	
3225	2.30 ± 0.20	± 5%			C3225NP02E333J230AA			
	2.50 ± 0.30	± 5%	C3225NP02J333J250AA	C3225NP02W333J250AA				
	2.00 ± 0.20	± 5%	C4532NP02J333J200KA					
47 nF	3216	1.15 ± 0.15	± 5%					C3216NP01H473J115AA
		2.00 ± 0.20	± 5%					C3225NP01H473J200AA
	3225	2.30 ± 0.20	± 5%				C3225NP02A473J230AA	
		2.50 ± 0.30	± 5%			C3225NP02E473J250AA		
		1.60 ± 0.20	± 5%					C4532NP01H473J160KA
4532	2.00 ± 0.20	± 5%					C4532NP02A473J200KA	
	2.30 ± 0.20	± 5%		C4532NP02W473J230KA				
	3.20 ± 0.30	± 5%	C4532NP02J473J320KA					
68 nF	3216	1.60 ± 0.20	± 5%					C3216NP01H683J160AA
		2.00 ± 0.20	± 5%					C3225NP01H683J200AA
	3225	2.30 ± 0.20	± 5%				C3225NP02A683J230AA	
		1.60 ± 0.20	± 5%					C4532NP01H683J160KA
		2.30 ± 0.20	± 5%			C4532NP02E683J230KN		
4532	2.50 ± 0.30	± 5%				C4532NP02A683J250KA		
	3.20 ± 0.30	± 5%		C4532NP02W683J320KA				
	1.60 ± 0.20	± 5%						
100 nF	3216	1.60 ± 0.20	± 5%					C3216NP01H104J160AA
		2.50 ± 0.30	± 5%					C3225NP01H104J250AA
	3225	2.00 ± 0.20	± 5%					C4532NP01H104J200KA
		3.20 ± 0.30	± 5%					
		2.80 ± 0.30	± 5%		C4532NP02E104J320KN	C4532NP02A104J320KA		
5750	2.80 ± 0.30	± 5%		C5750NP02W104J280KA				
	2.50 ± 0.30	± 5%					C4532NP01H154J250KA	
	2.30 ± 0.20	± 5%			C5750NP02E154J230KN	C5750NP02A154J230KA		
220 nF	4532	3.20 ± 0.30	± 5%					C4532NP01H224J320KA



## 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	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
150 pF	1005	0.50 ± 0.05	± 10%	C1005X8R2A151K050BA	C1005X8R1H151K050BA		
			± 20%	C1005X8R2A151M050BA	C1005X8R1H151M050BA		
220 pF	1005	0.50 ± 0.05	± 10%	C1005X8R2A221K050BA	C1005X8R1H221K050BA		
			± 20%	C1005X8R2A221M050BA	C1005X8R1H221M050BA		
330 pF	1005	0.50 ± 0.05	± 10%	C1005X8R2A331K050BA	C1005X8R1H331K050BA		
			± 20%	C1005X8R2A331M050BA	C1005X8R1H331M050BA		
470 pF	1005	0.50 ± 0.05	± 10%	C1005X8R2A471K050BA	C1005X8R1H471K050BA		
			± 20%	C1005X8R2A471M050BA	C1005X8R1H471M050BA		
680 pF	1005	0.50 ± 0.05	± 10%	C1005X8R2A681K050BA	C1005X8R1H681K050BA		
			± 20%	C1005X8R2A681M050BA	C1005X8R1H681M050BA		
1 nF	1005	0.50 ± 0.05	± 10%	C1005X8R2A102K050BA	C1005X8R1H102K050BA		
			± 20%	C1005X8R2A102M050BA	C1005X8R1H102M050BA		
	1608	0.80 ± 0.10	± 10%	C1608X8R2A102K080AA	C1608X8R1H102K080AA		
			± 20%	C1608X8R2A102M080AA	C1608X8R1H102M080AA		
1.5 nF	1005	0.50 ± 0.05	± 10%	C1005X8R2A152K050BA	C1005X8R1H152K050BA		
			± 20%	C1005X8R2A152M050BA	C1005X8R1H152M050BA		
	1608	0.80 ± 0.10	± 10%	C1608X8R2A152K080AA	C1608X8R1H152K080AA		
			± 20%	C1608X8R2A152M080AA	C1608X8R1H152M080AA		
2.2 nF	1005	0.50 ± 0.05	± 10%	C1005X8R2A222K050BA	C1005X8R1H222K050BA		
			± 20%	C1005X8R2A222M050BA	C1005X8R1H222M050BA		
	1608	0.80 ± 0.10	± 10%	C1608X8R2A222K080AA	C1608X8R1H222K080AA		
			± 20%	C1608X8R2A222M080AA	C1608X8R1H222M080AA		
3.3 nF	1005	0.50 ± 0.05	± 10%	C1005X8R2A332K050BB	C1005X8R1H332K050BA		
			± 20%	C1005X8R2A332M050BB	C1005X8R1H332M050BA		
	1608	0.80 ± 0.10	± 10%	C1608X8R2A332K080AA	C1608X8R1H332K080AA		
			± 20%	C1608X8R2A332M080AA	C1608X8R1H332M080AA		
4.7 nF	1005	0.50 ± 0.05	± 10%		C1005X8R1H472K050BA		
			± 20%		C1005X8R1H472M050BA		
	1608	0.80 ± 0.10	± 10%	C1608X8R2A472K080AA	C1608X8R1H472K080AA		
			± 20%	C1608X8R2A472M080AA	C1608X8R1H472M080AA		
6.8 nF	1005	0.50 ± 0.05	± 10%		C1005X8R1H682K050BB	C1005X8R1E682K050BA	
			± 20%		C1005X8R1H682M050BB	C1005X8R1E682M050BA	
	1608	0.80 ± 0.10	± 10%	C1608X8R2A682K080AA	C1608X8R1H682K080AA		
			± 20%	C1608X8R2A682M080AA	C1608X8R1H682M080AA		
10 nF	1005	0.50 ± 0.05	± 10%		C1005X8R1H103K050BB	C1005X8R1E103K050BA	
			± 20%		C1005X8R1H103M050BB	C1005X8R1E103M050BA	
	1608	0.80 ± 0.10	± 10%	C1608X8R2A103K080AA	C1608X8R1H103K080AA		
			± 20%	C1608X8R2A103M080AA	C1608X8R1H103M080AA		
15 nF	1005	0.50 ± 0.05	± 10%			C1005X8R1E153K050BB	
			± 20%			C1005X8R1E153M050BB	
	1608	0.80 ± 0.10	± 10%	C1608X8R2A153K080AA	C1608X8R1H153K080AA		
			± 20%	C1608X8R2A153M080AA	C1608X8R1H153M080AA		
22 nF	1005	0.50 ± 0.05	± 10%			C1005X8R1E223K050BB	
			± 20%			C1005X8R1E223M050BB	
	1608	0.80 ± 0.10	± 10%	C1608X8R2A223K080AB	C1608X8R1H223K080AA		
			± 20%	C1608X8R2A223M080AB	C1608X8R1H223M080AA		
2012	1.25 ± 0.20	± 10%	C2012X8R2A223K125AA				
		± 20%	C2012X8R2A223M125AA				
33 nF	1005	0.50 ± 0.05	± 10%				C1005X8R1C333K050BB
			± 20%				C1005X8R1C333M050BB
	1608	0.80 ± 0.10	± 10%	C1608X8R2A333K080AB	C1608X8R1H333K080AA		
			± 20%	C1608X8R2A333M080AB	C1608X8R1H333M080AA		
2012	1.25 ± 0.20	± 10%	C2012X8R2A333K125AB				
		± 20%	C2012X8R2A333M125AB				
3216	0.85 ± 0.15	± 10%	C3216X8R2A333K085AA				
		± 20%	C3216X8R2A333M085AA				



## 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	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	
47 nF	1005	0.50 ± 0.05	± 10%				C1005X8R1C473K050BB	
			± 20%				C1005X8R1C473M050BB	
	1608	0.80 ± 0.10	± 10%		C1608X8R1H473K080AA			
			± 20%		C1608X8R1H473M080AA			
	2012	1.25 ± 0.20	± 10%	C2012X8R2A473K125AB				
			± 20%	C2012X8R2A473M125AB				
	3216	0.85 ± 0.15	± 10%	C3216X8R2A473K085AA				
			± 20%	C3216X8R2A473M085AA				
68 nF	1608	0.80 ± 0.10	± 10%		C1608X8R1H683K080AB	C1608X8R1E683K080AA		
			± 20%		C1608X8R1H683M080AB	C1608X8R1E683M080AA		
	2012	1.25 ± 0.20	± 10%	C2012X8R2A683K125AB	C2012X8R1H683K125AA			
			± 20%	C2012X8R2A683M125AB	C2012X8R1H683M125AA			
	3216	1.15 ± 0.15	± 10%	C3216X8R2A683K115AA				
			± 20%	C3216X8R2A683M115AA				
	100 nF	1608	0.80 ± 0.10	± 10%		C1608X8R1H104K080AB	C1608X8R1E104K080AA	
				± 20%		C1608X8R1H104M080AB	C1608X8R1E104M080AA	
2012		1.25 ± 0.20	± 10%		C2012X8R1H104K125AA			
			± 20%		C2012X8R1H104M125AA			
3216		1.15 ± 0.15	± 10%	C3216X8R2A104K115AA				
			± 20%	C3216X8R2A104M115AA				
150 nF		1608	0.80 ± 0.10	± 10%			C1608X8R1E154K080AB	
				± 20%			C1608X8R1E154M080AB	
	2012	0.85 ± 0.15	± 10%			C2012X8R1E154K085AA		
			± 20%			C2012X8R1E154M085AA		
	3216	0.85 ± 0.15	± 10%		C3216X8R1H154K125AB			
			± 20%		C3216X8R1H154M125AB			
	3216	1.60 ± 0.20	± 10%	C3216X8R2A154K160AA				
			± 20%	C3216X8R2A154M160AA				
220 nF	1608	0.80 ± 0.10	± 10%			C1608X8R1E224K080AB		
			± 20%			C1608X8R1E224M080AB		
	2012	1.25 ± 0.20	± 10%		C2012X8R1H224K125AB	C2012X8R1E224K125AA		
			± 20%		C2012X8R1H224M125AB	C2012X8R1E224M125AA		
	3216	1.15 ± 0.15	± 10%		C3216X8R1H224K115AA			
			± 20%		C3216X8R1H224M115AA			
	3216	1.60 ± 0.20	± 10%	C3216X8R2A224K160AB				
			± 20%	C3216X8R2A224M160AB				
330 nF	1608	0.80 ± 0.10	± 10%				C1608X8R1C334K080AB	
			± 20%				C1608X8R1C334M080AB	
	2012	1.25 ± 0.20	± 10%			C2012X8R1E334K125AA		
			± 20%			C2012X8R1E334M125AA		
	3216	0.85 ± 0.15	± 10%			C3216X8R1E334K085AA		
			± 20%			C3216X8R1E334M085AA		
	3216	1.60 ± 0.20	± 10%	C3216X8R2A334K160AB	C3216X8R1H334K160AA			
			± 20%	C3216X8R2A334M160AB	C3216X8R1H334M160AA			
470 nF	1608	0.80 ± 0.10	± 10%				C1608X8R1C474K080AB	
			± 20%				C1608X8R1C474M080AB	
	2012	1.25 ± 0.20	± 10%			C2012X8R1E474K125AB		
			± 20%			C2012X8R1E474M125AB		
	3216	0.85 ± 0.15	± 10%			C3216X8R1E474K085AA		
			± 20%			C3216X8R1E474M085AA		
	3216	1.60 ± 0.20	± 10%		C3216X8R1H474K160AA			
			± 20%		C3216X8R1H474M160AA			
3225	2.00 ± 0.20	± 10%	C3225X8R2A474K200AB					
		± 20%	C3225X8R2A474M200AB					



## 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	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
680 nF	2012	1.25 ± 0.20	± 10%				C2012X8R1C684K125AB
			± 20%				C2012X8R1C684M125AB
	3216	1.15 ± 0.15	± 10%			C3216X8R1E684K115AA	
			± 20%			C3216X8R1E684M115AA	
	3216	1.60 ± 0.20	± 10%		C3216X8R1H684K160AB		
			± 20%		C3216X8R1H684M160AB		
3225	2.50 ± 0.30	± 10%	C3225X8R2A684K250AB				
			± 20%	C3225X8R2A684M250AB			
1 μF	2012	1.25 ± 0.20	± 10%				C2012X8R1C105K125AB
			± 20%				C2012X8R1C105M125AB
3216	1.60 ± 0.20	± 10%		C3216X8R1H105K160AB	C3216X8R1E105K160AA		
		± 20%		C3216X8R1H105M160AB	C3216X8R1E105M160AA		
1.5 μF	3216	1.60 ± 0.20	± 10%			C3216X8R1E155K160AB	
			± 20%			C3216X8R1E155M160AB	
3225	1.60 ± 0.20	± 10%			C3225X8R1E155K160AA		
		± 20%			C3225X8R1E155M160AA		
2.2 μF	3216	1.60 ± 0.20	± 10%			C3216X8R1E225K160AB	
			± 20%			C3216X8R1E225M160AB	
3225	2.00 ± 0.20	± 10%			C3225X8R1E225K200AA		
		± 20%			C3225X8R1E225M200AA		
3.3 μF	3216	1.60 ± 0.20	± 10%				C3216X8R1C335K160AB
			± 20%				C3216X8R1C335M160AB
3225	2.50 ± 0.30	± 10%			C3225X8R1E335K250AA		
		± 20%			C3225X8R1E335M250AA		
4.7 μF	3216	1.60 ± 0.20	± 10%				C3216X8R1C475K160AB
			± 20%				C3216X8R1C475M160AB
3225	2.50 ± 0.30	± 10%			C3225X8R1E475K250AB		
		± 20%			C3225X8R1E475M250AB		
6.8 μF	3225	2.00 ± 0.20	± 10%				C3225X8R1C685K200AB
			± 20%				C3225X8R1C685M200AB
10 μF	3225	2.50 ± 0.30	± 10%				C3225X8R1C106K250AB
			± 20%				C3225X8R1C106M250AB

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