



MULTILAYER CERAMIC CHIP CAPACITORS



CKC Series Commercial Grade 2 in 1 Array

Type:

**CKCN27 [EIA CC0302]
CKCM25 [EIA CC0504]
CKCL22 [EIA CC0805]**

**Issue date:
Jul 2015**



REMINDERS

Please read before using this product

SAFETY REMINDERS



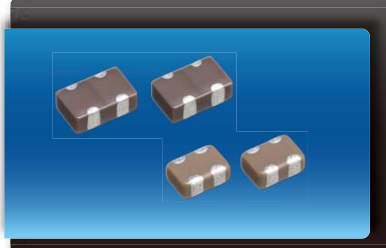
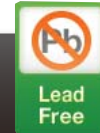
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Notice: Effective January 2013, TDK will use a new catalog number which adds product thickness and packaging specification detail. This new catalog number should be referenced on all catalog orders going forward, and is not applicable for OEM part number orders. Please be aware the last five digits of the catalog number will differ from the item description (internal control number) on the product label. Contact your local TDK Sales representative for more information.

(Example)

| Catalog Issued date | Catalog Number | Item Description (On Delivery Label) |
|------------------------|---------------------|--------------------------------------|
| Prior to January 2013 | C1608C0G1E103J | C1608C0G1E103JT000N |
| January 2013 and Later | C1608C0G1E103J080AA | C1608C0G1E103JT000N |



CKC Series 2in1 Array

Type: CKCN27 [EIA CC0302], CKCM25 [EIA CC0504],
CKCL22 [EIA CC0805]

Features



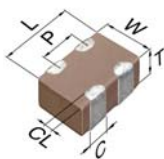
- Multiple capacitors are fitted in a single product, contributing to reduced installation costs.
- The electrostatic capacity range and shape are designed to meet the demands of the cellular phone market.
- Unique electrode construction reduces crosstalk.
- Also available in soft termination.

Applications



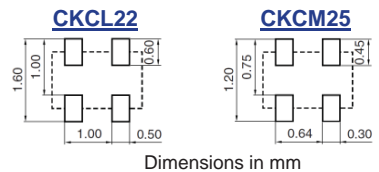
- Cellular telephone interface
- Interface cable circuit
- PC and peripherals
- CPU bus line
- High frequency circuit
- Noise bypass circuit

Shape & Dimensions



| | |
|---|------------------|
| L | Body Length |
| W | Body Width |
| T | Body Height |
| C | Terminal Width |
| P | Terminal Spacing |

PC Board Pattern



Catalog Number Construction

CKC • L22 • X5R • 0J • 225 • M • 085 • A • K

Series Name

Dimensions L x W (mm)

| Code | Length | Width |
|------|-------------|-------------|
| N27 | 0.90 ± 0.05 | 0.60 ± 0.05 |
| M25 | 1.37 ± 0.15 | 1.00 ± 0.15 |
| L22 | 2.00 ± 0.15 | 1.25 ± 0.15 |

Temperature Characteristics

| Temperature Characteristics | Temperature Coefficient or Capacitance Change | Temperature Range |
|-----------------------------|-----------------------------------------------|-------------------|
| C0G | 0±30 ppm/°C | -55 to +125°C |
| CH | 0±60 ppm/°C | -25 to +85°C |
| JB | ±10% | -25 to +85°C |
| X5R | ±15% | -55 to +85°C |
| X7R | ±15% | -55 to +125°C |
| X8R | ±15% | -55 to +150°C |

Rated Voltage (DC)

| Code | Voltage (DC) | Code | Voltage (DC) |
|------|--------------|------|--------------|
| 0J | 6.3V | 1E | 25V |
| 1A | 10V | 1H | 50V |
| 1C | 16V | 2A | 100V |

Nominal Capacitance (pF)

The capacitance is expressed in three digit codes and in units of pico Farads (pF). The first and second digits identify the first and second significant figures of the capacitance. The third digit identifies the multiplier. R designates a decimal point.

Ex. 0R2 = 0.2pF; 103 = 10,000pF; 105 = 1,000,000pF = 1,00nF = 1μF

Capacitance Tolerance

| Code | Tolerance |
|------|-----------|
| F | ± 1pF |
| K | ± 10% |
| M | ± 20% |

Nominal Thickness

| Code | Thickness |
|------|-----------|
| 045 | 0.45 mm |
| 060 | 0.60 mm |
| 080 | 0.80 mm |
| 085 | 0.85 mm |
| 100 | 1.00 mm |

Packaging Style

| Code | Style |
|------|-------------------------|
| A | 178 mm Reel, 4 mm Pitch |
| B | 178 mm Reel, 2 mm Pitch |

Special Reserved Code

| Code | Description |
|---------|-------------------|
| A, B, C | TDK Internal Code |
| K | Soft Termination |



Capacitance Range Chart

CKCN27(C0906)[EIA CC0302]

Capacitance Range Chart

Temperature Characteristics: JB ($\pm 10\%$), X5R ($\pm 15\%$)
 Rated Voltage: 6.3V (0J)

| Capacitance (pF) | Code | Tolerance | JB | X5R |
|------------------|------|---------------|-----------|-----------|
| | | | 0J (6.3V) | 0J (6.3V) |
| 100,000 | 104 | M: $\pm 20\%$ | | |

Standard Thickness

0.45 mm



Capacitance Range Chart

CKCM25(C1310)[EIA CC0504]

Capacitance Range Chart

Temperature Characteristics: C0G ($0 \pm 30\text{ppm}/^\circ\text{C}$), CH ($0 \pm 60\text{ppm}/^\circ\text{C}$)
 Rated Voltage: 100V (2A), 50V (1H)

| Capacitance (pF) | Code | Tolerance | C0G | | CH |
|------------------|------|---------------------|-----------|----------|----------|
| | | | 2A (100V) | 1H (50V) | 1H (50V) |
| 10 | 100 | F: $\pm 1\text{pF}$ | | | |
| 15 | 150 | K: $\pm 10\%$ | | | |
| 22 | 220 | M: $\pm 20\%$ | | | |
| 33 | 330 | | | | |
| 47 | 470 | | | | |
| 68 | 680 | | | | |
| 100 | 101 | | | | |

Capacitance Range Chart

Temperature Characteristics: JB ($\pm 10\%$), X5R ($\pm 15\%$), X7R ($\pm 15\%$), X8R ($\pm 15\%$)
 Rated Voltage: 50V (1H), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J)

| Capacitance (pF) | Code | Tolerance | JB | | | | | X5R | | | | | X7R | | X8R |
|------------------|------|---------------------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|-----------|----------|----------|----------|
| | | | 1H (50V) | 1E (25V) | 1C (16V) | 1A (10V) | 0J (6.3V) | 1H (50V) | 1E (25V) | 1C (16V) | 1A (10V) | 0J (6.3V) | 1H (50V) | 1E (25V) | 1H (50V) |
| 220 | 221 | F: $\pm 1\text{pF}$ | | | | | | | | | | | | | |
| 330 | 331 | K: $\pm 10\%$ | | | | | | | | | | | | | |
| 470 | 471 | M: $\pm 20\%$ | | | | | | | | | | | | | |
| 680 | 681 | | | | | | | | | | | | | | |
| 1,000 | 102 | | | | | | | | | | | | | | |
| 1,500 | 152 | | | | | | | | | | | | | | |
| 2,200 | 222 | | | | | | | | | | | | | | |
| 3,300 | 332 | | | | | | | | | | | | | | |
| 4,700 | 472 | | | | | | | | | | | | | | |
| 6,800 | 682 | | | | | | | | | | | | | | |
| 10,000 | 103 | | | | | | | | | | | | | | |
| 22,000 | 223 | | | | | | | | | | | | | | |
| 47,000 | 473 | | | | | | | | | | | | | | |
| 100,000 | 104 | | | | | | | | | | | | | | |
| 220,000 | 224 | | | | | | | | | | | | | | |
| 470,000 | 474 | | | | | | | | | | | | | | |
| 1,000,000 | 105 | | | | | | | | | | | | | | |

Standard Thickness

0.60 mm

0.80 mm



Capacitance Range Chart

CKCL22(2012) [EIA CC0805]

Capacitance Range Chart

Temperature Characteristics: C0G (0 ± 30ppm/°C), CH (0 ± 60ppm/°C), JB (± 10%)
 Rated Voltage: 100V (2A), 50V (1H), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J)

| Capacitance (pF) | Code | Tolerance | C0G | | CH | JB | | | | | |
|------------------|------|-----------|-----------|----------|----------|----------|----------|----------|----------|-----------|--|
| | | | 2A (100V) | 1H (50V) | 1H (50V) | 1H (50V) | 1E (25V) | 1C (16V) | 1A (10V) | 0J (6.3V) | |
| 10 | 100 | F: ± 1pF | ■ | ■ | ■ | | | | | | |
| 15 | 150 | K: ± 10% | ■ | ■ | ■ | | | | | | |
| 22 | 220 | M: ± 20% | ■ | ■ | ■ | | | | | | |
| 33 | 330 | | ■ | ■ | ■ | | | | | | |
| 47 | 470 | | ■ | ■ | ■ | | | | | | |
| 68 | 680 | | ■ | ■ | ■ | | | | | | |
| 100 | 101 | | ■ | ■ | ■ | | | | | | |
| 150 | 151 | | ■ | ■ | ■ | | | | | | |
| 220 | 221 | | ■ | ■ | ■ | | | | | | |
| 330 | 331 | | ■ | ■ | ■ | | | | | | |
| 470 | 471 | | ■ | ■ | ■ | | | | | | |
| 1,000 | 102 | | | | | ■ | | | | | |
| 2,200 | 222 | | | | | | | | | | |
| 4,700 | 472 | | | | | | | | | | |
| 10,000 | 103 | | | | | | | | | | |
| 22,000 | 223 | | | | | | | | | | |
| 47,000 | 473 | | | | | | | | | | |
| 100,000 | 104 | | | | | | | | | | |
| 220,000 | 224 | | | | | | | | | | |
| 470,000 | 474 | | | | | | | | | | |
| 1,000,000 | 105 | | | | | | | | | | |
| 2,200,000 | 225 | | | | | | | | | | |

Standard Thickness
 0.85 mm

Capacitance Range Chart

Temperature Characteristics: X5R (± 15%), X7R (±15%)
 Rated Voltage: 100V (2A), 50V (1H), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J)

| Capacitance (pF) | Code | Tolerance | X5R | | | | | X7R | | | |
|------------------|------|-----------|----------|----------|----------|----------|-----------|-----------|----------|----------|----------|
| | | | 1H (50V) | 1E (25V) | 1C (16V) | 1A (10V) | 0J (6.3V) | 2A (100V) | 1H (50V) | 1E (25V) | 1A (10V) |
| 470 | 471 | F: ± 1pF | ■ | | | | | ■ | | | |
| 1,000 | 102 | K: ± 10% | ■ | | | | | ■ | | | |
| 2,200 | 222 | M: ± 20% | ■ | | | | | ■ | | | |
| 4,700 | 472 | | ■ | | | | | ■ | | | |
| 10,000 | 103 | | ■ | | | | | ■ | | | |
| 22,000 | 223 | | ■ | | | | | ■ | | | |
| 47,000 | 473 | | ■ | | | | | ■ | | | |
| 100,000 | 104 | | ■ | | | | | ■ | | | |
| 220,000 | 224 | | ■ | | | | | ■ | | | |
| 470,000 | 474 | | ■ | | | | | ■ | | | |
| 1,000,000 | 105 | | ■ | | | | | ■ | | | |
| 2,200,000 | 225 | | ■ | | | | | ■ | | | |

Standard Thickness
 0.85 mm



Capacitance Range Table

Class 1 (Temperature Compensating)

Temperature Characteristics: C0G (-55 to +125°C, 0±30 ppm/°C)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | |
|-------------|------|----------------|-----------------------|-------------------------|------------------------|
| | | | | Rated Voltage Edc: 100V | Rated Voltage Edc: 50V |
| 10 pF | 1310 | 0.60 ± 0.10 | ± 1pF | CKCM25C0G2A100F060AK | CKCM25C0G1H100F060AK |
| | | | ± 1pF | | CKCM25C0G1H100F060AA |
| 15 pF | 1310 | 0.60 ± 0.10 | ± 10% | CKCM25C0G2A150K060AK | CKCM25C0G1H150K060AK |
| | | | ± 10% | | CKCM25C0G1H150K060AA |
| 22 pF | 1310 | 0.60 ± 0.10 | ± 10% | CKCM25C0G2A220K060AK | CKCM25C0G1H220K060AK |
| | | | ± 10% | | CKCM25C0G1H220K060AA |
| 33 pF | 1310 | 0.60 ± 0.10 | ± 10% | CKCM25C0G2A330K060AK | CKCM25C0G1H330K060AK |
| | | | ± 10% | | CKCM25C0G1H330K060AA |
| 47 pF | 1310 | 0.60 ± 0.10 | ± 10% | CKCM25C0G2A470K060AK | CKCM25C0G1H470K060AK |
| | | | ± 10% | | CKCM25C0G1H470K060AA |
| 68 pF | 1310 | 0.60 ± 0.10 | ± 10% | CKCM25C0G2A680K060AK | CKCM25C0G1H680K060AK |
| | | | ± 10% | | CKCM25C0G1H680K060AA |
| 100 pF | 1310 | 0.60 ± 0.10 | ± 10% | CKCM25C0G2A101K060AK | CKCM25C0G1H101K060AK |
| | | | ± 10% | | CKCM25C0G1H101K060AA |
| 150 pF | 2012 | 0.85 ± 0.15 | ± 10% | CKCL22C0G2A150K085AA | CKCL22C0G1H151K085AA |
| 220 pF | 2012 | 0.85 ± 0.15 | ± 10% | CKCL22C0G2A221K085AA | CKCL22C0G1H221K085AA |
| 330 pF | 2012 | 0.85 ± 0.15 | ± 10% | CKCL22C0G2A331K085AA | CKCL22C0G1H331K085AA |
| 470 pF | 2012 | 0.85 ± 0.15 | ± 10% | CKCL22C0G2A471K085AA | CKCL22C0G1H471K085AA |

Class 1 (Temperature Compensating)

Temperature Characteristics: CH (-25 to +85°C, 0±60 ppm/°C)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | |
|-------------|------|----------------|-----------------------|-------------------------|------------------------|
| | | | | Rated Voltage Edc: 100V | Rated Voltage Edc: 50V |
| 10 pF | 1310 | 0.60±0.10 | ± 1pF | | CKCM25CH1H100F060AA |
| | | | ± 1pF | | CKCL22CH1H100F085AA |
| 15 pF | 1310 | 0.60±0.10 | ± 10% | | CKCM25CH1H150K060AA |
| | | | ± 10% | | CKCL22CH1H150K085AA |
| 22 pF | 1310 | 0.60±0.10 | ± 10% | | CKCM25CH1H220K060AA |
| | | | ± 10% | | CKCL22CH1H220K085AA |
| 33 pF | 1310 | 0.60±0.10 | ± 10% | | CKCM25CH1H330K060AA |
| | | | ± 10% | | CKCL22CH1H330K085AA |
| 47 pF | 1310 | 0.60±0.10 | ± 10% | | CKCM25CH1H470K060AA |
| | | | ± 10% | | CKCL22CH1H470K085AA |
| 68 pF | 1310 | 0.60±0.10 | ± 10% | | CKCM25CH1H680K060AA |
| | | | ± 10% | | CKCL22CH1H680K085AA |
| 100 pF | 1310 | 0.60±0.10 | ± 10% | | CKCM25CH1H101K060AA |
| | | | ± 10% | | CKCL22CH1H101K085AA |
| 150 pF | 2012 | 0.85±0.15 | ± 10% | CKCL22CH1H151K085AA | CKCL22CH1H151K085AA |
| 220 pF | 2012 | 0.85±0.15 | ± 10% | CKCL22CH1H221K085AA | CKCL22CH1H221K085AA |
| 330 pF | 2012 | 0.85±0.15 | ± 10% | CKCL22CH1H331K085AA | CKCL22CH1H331K085AA |
| 470 pF | 2012 | 0.85±0.15 | ± 10% | CKCL22CH1H471K085AA | CKCL22CH1H471K085AA |



Capacitance Range Table

Class 2 (Temperature Stable)

Temperature Characteristics: JB (-25 to +85°C, ±10%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|-------------|------|----------------|-----------------------|-------------------------|------------------------|------------------------|------------------------|
| | | | | Rated Voltage Edc: 100V | Rated Voltage Edc: 50V | Rated Voltage Edc: 25V | Rated Voltage Edc: 16V |
| 1 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25JB1H102M060AA | | |
| | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22JB1H102M085AA | | |
| 2.2 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25JB1H222M060AA | | |
| | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22JB1H222M085AA | | |
| 4.7 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25JB1H472M060AA | | |
| | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22JB1H472M085AA | | |
| 10 nF | 1310 | 0.60 ± 0.10 | ± 20% | | | CKCM25JB1E103M060AA | |
| | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22JB1H103M085AA | | |
| 22 nF | 1310 | 0.60 ± 0.10 | ± 20% | | | | CKCM25JB1C223M060AA |
| | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22JB1H223M085AA | | |
| 47 nF | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22JB1H473M085AA | CKCL22JB1E473M085AA | |
| 100 nF | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22JB1H104M085AB | CKCL22JB1E104M085AA | |
| 220 nF | 2012 | 0.85 ± 0.15 | ± 20% | | | | CKCL22JB1C224M085AA |
| 1 µF | 2012 | 0.85 ± 0.15 | ± 20% | | | | CKCL22JB1C105M085AB |

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | |
|-------------|------|----------------|-----------------------|------------------------|-------------------------|
| | | | | Rated Voltage Edc: 10V | Rated Voltage Edc: 6.3V |
| 47 nF | 1310 | 0.60 ± 0.10 | ± 20% | CKCM25JB1A473M060AA | |
| 100 nF | 0906 | 0.45 ± 0.05 | ± 20% | | CKCN27JB0J104M045BK |
| | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25JB0J104M060AA |
| 220 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25JB0J224M060AA |
| 470 nF | 1310 | 0.80 ± 0.10 | ± 20% | | CKCM25JB0J474M080AA |
| | 2012 | 0.85 ± 0.15 | ± 20% | CKCL22JB1A474M085AA | |
| 1 µF | 1310 | 0.80 ± 0.10 | ± 20% | | CKCM25JB0J105M080AA |
| | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22JB0J105M085AA |
| 2.2 µF | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22JB0J225M085AA |

Class 2 (Temperature Stable)

Temperature Characteristics: X5R (-55 to +85°C, ±15%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|-------------|------|----------------|-----------------------|-------------------------|------------------------|------------------------|------------------------|
| | | | | Rated Voltage Edc: 100V | Rated Voltage Edc: 50V | Rated Voltage Edc: 25V | Rated Voltage Edc: 16V |
| 1 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X5R1H102M060AA | | |
| | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22X5R1H102M085AA | | |
| 2.2 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X5R1H222M060AA | | |
| | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22X5R1H222M085AA | | |
| 4.7 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X5R1H472M060AA | | |
| | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22X5R1H472M085AA | | |
| 10 nF | 1310 | 0.60 ± 0.10 | ± 20% | | | CKCM25X5R1E103M060AA | |
| | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22X5R1H103M085AA | | |
| 22 nF | 1310 | 0.60 ± 0.10 | ± 20% | | | | CKCM25X5R1C223M060AA |
| | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22X5R1H223M085AA | | CKCM25X5R1C223M060AK |
| 47 nF | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22X5R1H473M085AA | CKCL22X5R1E473M085AA | |
| 100 nF | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22X5R1H104M085AB | CKCL22X5R1E104M085AA | |
| 220 nF | 2012 | 0.85 ± 0.15 | ± 20% | | | | CKCL22X5R1C224M085AA |
| | | | | | | | CKCL22X5R1C224M085AK |
| 1 µF | 2012 | 0.85 ± 0.15 | ± 20% | | | | CKCL22X5R1C105M085AC |



Capacitance Range Table

Class 2 (Temperature Stable)

Temperature Characteristics: X5R (-55 to +85°C, ±15%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | |
|-------------|------|----------------|-----------------------|------------------------|-------------------------|
| | | | | Rated Voltage Edc: 10V | Rated Voltage Edc: 6.3V |
| 47 nF | 1310 | 0.60 ± 0.10 | ± 20% | CKCM25X5R1A473M060AA | |
| | | | | CKCM25X5R1A473M060AK | |
| 100 nF | 0906 | 0.45 ± 0.05 | ± 20% | | CKCN27X5R0J104M045BK |
| | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X5R0J104M060AA |
| | | | | | CKCM25X5R0J104M060AK |
| 220 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X5R0J224M060AA |
| | | | | | CKCM25X5R0J224M060AK |
| | | | | | CKCM25X5R0J474M080AA |
| 470 nF | 1310 | 0.80 ± 0.10 | ± 20% | | CKCM25X5R0J474M080AA |
| | | | | | CKCM25X5R0J474M080AK |
| | | | | | CKCL22X5R1A474M085AA |
| 1 µF | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22X5R1A474M085AK |
| | | | | | CKCM25X5R0J105M080AA |
| | | | | | CKCM25X5R0J105M080AK |
| 2.2 µF | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22X5R0J105M085AA |
| | | | | | CKCL22X5R0J105M085AK |
| | | | | | CKCL22X5R0J225M085AA |
| | | | | | CKCL22X5R0J225M085AK |

Class 2 (Temperature Stable)

Temperature Characteristics: X7R (-55 to +125°C, ±15%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|-------------|------|----------------|-----------------------|-------------------------|------------------------|------------------------|------------------------|
| | | | | Rated Voltage Edc: 100V | Rated Voltage Edc: 50V | Rated Voltage Edc: 25V | Rated Voltage Edc: 16V |
| 470 pF | 2012 | 0.85 ± 0.15 | ± 20% | CKCL22X7R2A471M085AK | | | |
| 1 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X7R1H102M060AA | | |
| | | | | | CKCM25X7R1H102M060AK | | |
| | | | | | CKCL22X7R1H102M085AA | | |
| 2.2 nF | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22X7R2A102M085AK | | |
| | | | | | CKCM25X7R1H222M060AA | | |
| | | | | | CKCM25X7R1H222M060AK | | |
| 4.7 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCL22X7R1H222M085AA | | |
| | | | | | CKCM25X7R1H472M060AA | | |
| | | | | | CKCM25X7R1H472M060AK | | |
| 10 nF | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22X7R2A472M085AK | | |
| | | | | | CKCM25X7R1E103M060AA | | |
| | | | | | CKCM25X7R1E103M060AK | | |
| 22 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCL22X7R1H103M085AA | | |
| | | | | | CKCL22X7R1H103M085AK | | |
| | | | | | CKCL22X7R2A103M085AK | | |
| 47 nF | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22X7R1H223M085AA | | |
| | | | | | CKCL22X7R1H223M085AK | | |
| | | | | | CKCL22X7R1H473M085AA | CKCL22X7R1E473M085AA | |
| 100 nF | 2012 | 0.85 ± 0.15 | ± 20% | | CKCL22X7R1H473M085AK | CKCL22X7R1E473M085AK | |
| | | | | | CKCL22X7R1H104M085AA | CKCL22X7R1E104M085AA | |
| | | | | | CKCL22X7R1H104M085AK | CKCL22X7R1E104M085AA | |
| 220 nF | 2012 | 0.85 ± 0.15 | ± 20% | | | | CKCL22X7R1A224M085AA |
| | | | | | | | CKCL22X7R1A224M085AK |



Capacitance Range Table

Class 2 (Temperature Stable)

Temperature Characteristics: X8R (-55 to +150°C, ±15%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | Catalog Number | | | |
|-------------|------|----------------|-----------------------|-------------------------|------------------------|------------------------|------------------------|
| | | | | Rated Voltage Edc: 100V | Rated Voltage Edc: 50V | Rated Voltage Edc: 25V | Rated Voltage Edc: 16V |
| 220 pF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X8R1H221M060AK | | |
| | | | ± 20% | | CKCM25X8R1H221M060AA | | |
| 330 pF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X8R1H331M060AK | | |
| | | | ± 20% | | CKCM25X8R1H331M060AA | | |
| 470 pF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X8R1H471M060AK | | |
| | | | ± 20% | | CKCM25X8R1H471M060AA | | |
| 680 pF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X8R1H681M060AK | | |
| | | | ± 20% | | CKCM25X8R1H681M060AA | | |
| 1 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X8R1H102M060AK | | |
| | | | ± 20% | | CKCM25X8R1H102M060AA | | |
| 1.5 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X8R1H152M060AK | | |
| | | | ± 20% | | CKCM25X8R1H152M060AA | | |
| 2.2 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X8R1H222M060AK | | |
| | | | ± 20% | | CKCM25X8R1H222M060AA | | |
| 3.3 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X8R1H332M060AK | | |
| | | | ± 20% | | CKCM25X8R1H332M060AA | | |
| 4.7 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X8R1H472M060AK | | |
| | | | ± 20% | | CKCM25X8R1H472M060AA | | |
| 6.8 nF | 1310 | 0.60 ± 0.10 | ± 20% | | CKCM25X8R1H682M060AK | | |
| | | | ± 20% | | CKCM25X8R1H682M060AA | | |