



MULTILAYER CERAMIC CHIP CAPACITORS

CKG Series Commercial Grade MEGACAP Type

Type:

CKG32K [EIA CC1210]
CKG45K [EIA CC1812]
CKG45N [EIA CC1812]
CKG57K [EIA CC2220]
CKG57N [EIA CC2220]

Issue date:
January 2013



Version A13

REMINDERS

Please read before using this product

SAFETY REMINDERS



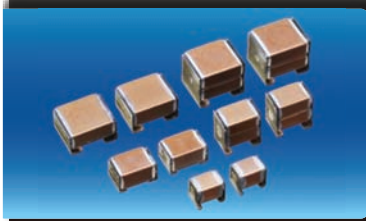
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(Example)

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



CKG Series MEGACAP Type

Type: CKG32K [EIA CC1210], CKG45K [EIA CC1812],
CKG45N [EIA CC1812], CKG57K [EIA CC2220], CKG57N [EIA CC2220]

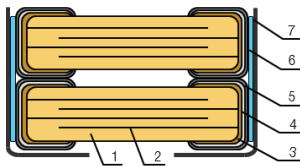


Features



- Twice the capacitance on single capacitor foot print.
- Lower ESR and ESL than Al caps.
- Capable of absorbing thermal and mechanical stress.
- Improved vibration performance.

Design Structure



| No. | NAME | MATERIAL |
|-----|--------------------|--------------------|
| | | Class 2 |
| (1) | Ceramic Dielectric | BaTiO ₃ |
| (2) | Internal Electrode | Nickel (Ni) |
| (3) | | Copper (Cu) |
| (4) | Termination | Nickel (Ni) |
| (5) | | Tin (Sn) |
| (6) | Metal Cap Joint | High Temp Solder |
| (7) | Metal Cap | 42 Alloy |

Applications



- Automotive application (EPS, ABS, EV, HEV, LED lighting etc.)
- Smoothing circuits
- DC-DC converters
- LED, HID applications
- Temperature variable applications
- Piezoelectric-effect countermeasure

Shape & Dimensions



Single Type



Stacked Type



| | |
|---|-------------|
| L | Body Length |
| W | Body Width |
| T | Body Height |

| | |
|---|-------------|
| L | Body Length |
| W | Body Width |
| T | Body Height |



Part Number Construction

CKG • 57 • N • X7S • 1C • 107 • M • 500 • J • H

Series Name

Dimensions L x W (mm)

| Code | Length | Width |
|------|-------------|-------------|
| 32 | 3.60 ± 0.30 | 2.60 ± 0.30 |
| 45 | 5.00 ± 0.50 | 3.50 ± 0.50 |
| 57 | 6.00 ± 0.50 | 5.00 ± 0.50 |

Structure

| Code | Description |
|------|--------------|
| K | Single Type |
| N | Stacked Type |

Temperature Characteristics

| Temperature Characteristics | Capacitance Change | Temperature Range |
|-----------------------------|--------------------|-------------------|
| X5R | ± 15% | -55 to +85°C |
| X7R | ± 15% | -55 to +125°C |
| X7S | ± 22% | -55 to +125°C |
| X7T | + 22/-33% | -55 to +125°C |

Rated Voltage (DC)

| Code | Voltage (DC) |
|------|--------------|
| 1C | 16V |
| 1E | 25V |
| 1H | 50V |
| 2A | 100V |
| 2E | 250V |
| 2W | 450V |
| 2J | 630V |

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 = 1,000nF = 1μF

Capacitance Tolerance

| Code | Tolerance |
|------|-----------|
| K | ± 10% |
| M | ± 20% |

Nominal Thickness

| Code | Thickness |
|------|-----------|
| 290 | 2.90 mm |
| 335 | 3.35 mm |
| 500 | 5.00 mm |

Packaging Style

| Code | Style |
|------|----------------------|
| A | 178" Reel, 4mm Pitch |
| J | 330" Reel, 8mm Pitch |

Special Reserved Code

| Code | Description |
|------|---------------|
| H | MEGACAP (Std) |



Capacitance Range Chart

CKG32K [EIA CC1210]

Capacitance Range Chart

Temperature Characteristics: X7R ($\pm 15\%$), X7S ($\pm 22\%$), X7T (+ 22/-33%)
 Rated Voltage: 630V (2J), 400V (2W), 250V (2E), 100V (2A), 50V (1H), 25V (1E)

| Capacitance (pF) | Code | Tolerance | X7R | | | | | X7S | | X7T | | |
|------------------|------|--------------------------------|-----------|-----------|-----------|----------|----------|-----------|----------|-----------|-----------|-----------|
| | | | 2J (630V) | 2E (250V) | 2A (100V) | 1H (50V) | 1E (25V) | 2A (100V) | 1H (50V) | 2J (630V) | 2W (450V) | 2E (250V) |
| 47,000 | 473 | K: $\pm 10\%$ M: $\pm 20\%$ | ■ | | | | | | | | | |
| 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 | | | | | | | ■ | ■ | | | |
| 6,800,000 | 685 | | | | | | | | | ■ | | |
| 10,000,000 | 106 | | | | | | | ■ | | | | |

Standard Thickness

■ 3.35 mm



Capacitance Range Chart

CKG45K [EIA CC1812]

Capacitance Range Chart

Temperature Characteristics: X7R ($\pm 15\%$), X7S ($\pm 22\%$), X7T (+ 22/-33%)
 Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A), 50V (1H), 25V (1E), 16V (1C)

| Capacitance (pF) | Code | Tolerance | X7R | | | | | | X7S | | | X7T | | |
|------------------|------|--------------------------------|-----------|-----------|-----------|----------|----------|----------|-----------|----------|----------|-----------|-----------|-----------|
| | | | 2J (630V) | 2E (250V) | 2A (100V) | 1H (50V) | 1E (25V) | 1C (16V) | 2A (100V) | 1H (50V) | 1C (16V) | 2J (630V) | 2W (450V) | 2E (250V) |
| 100,000 | 104 | K: $\pm 10\%$ M: $\pm 20\%$ | ■ | | | | | | | | | | | |
| 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 | | | | | | | | | | ■ | | | |
| 22,000,000 | 226 | | | | | | | | | | | ■ | | |

Standard Thickness

■ 2.90 mm



Capacitance Range Chart

CKG57K [EIA CC2220]

Capacitance Range Chart

Temperature Characteristics: X7R ($\pm 15\%$), X7S ($\pm 22\%$), X7T (+22/-33%)

Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A), 50V (1H), 25V (1E), 16V (1C)

| Capacitance (pF) | Code | Tolerance | X7R | | | | | | X7S | | | X7T | | |
|------------------|------|--------------------------------|-----------|-----------|-----------|----------|----------|----------|-----------|----------|----------|-----------|-----------|-----------|
| | | | 2J (630V) | 2E (250V) | 2A (100V) | 1H (50V) | 1E (25V) | 1C (16V) | 2A (100V) | 1H (50V) | 1C (16V) | 2J (630V) | 2W (450V) | 2E (250V) |
| 20,000 | 224 | K: $\pm 10\%$ M: $\pm 20\%$ | ■ | | | | | | | | | | | |
| 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 | | | | ■ | ■ | | | | | | | | |
| 6,800,000 | 685 | | | | | | | | ■ | | ■ | | | |
| 10,000,000 | 106 | | | | | | | ■ | | | | | | |
| 15,000,000 | 156 | | | | | | | | ■ | ■ | | | | |
| 22,000,000 | 226 | | | | | | ■ | | | | | | | |
| 47,000,000 | 476 | | | | | | | | | | ■ | | | |

Standard Thickness

■ 3.35 mm



Capacitance Range Chart

CKG45N [EIA CC1812]

Capacitance Range Chart

Temperature Characteristics: X5R ($\pm 15\%$), X7R ($\pm 15\%$), X7S ($\pm 22\%$), X7T ($+ 22/-33\%$)
 Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A), 50V (1H), 25V (1E), 16V (1C)

| Capacitance (pF) | Code | Tolerance | X5R | | | X7R | | | | | |
|------------------|------|---------------|----------|----------|-----------|-----------|-----------|----------|----------|----------|---|
| | | | 1H (50V) | 1C (16V) | 2J (630V) | 2E (250V) | 2A (100V) | 1H (50V) | 1E (25V) | 1C (16V) | |
| 220,000 | 224 | M: $\pm 20\%$ | | | ■ | | | | | | |
| 470,000 | 474 | | | | | ■ | | | | | |
| 1,000,000 | 105 | | | | | | ■ | | | | |
| 2,200,000 | 225 | | | | | | | ■ | | | |
| 3,300,000 | 335 | | | | | | | | ■ | | |
| 4,700,000 | 475 | | | | | | | ■ | | | |
| 6,800,000 | 685 | | | | | | | | ■ | | |
| 10,000,000 | 106 | | | ■ | | | | | | ■ | |
| 22,000,000 | 226 | | | | | | | | | | ■ |
| 47,000,000 | 476 | | | | ■ | | | | | | |

| Capacitance (pF) | Code | Tolerance | X7S | | | X7T | | | |
|------------------|------|---------------|-----------|----------|----------|-----------|-----------|-----------|---|
| | | | 2A (100V) | 1H (50V) | 1C (16V) | 2J (630V) | 2W (450V) | 2E (250V) | |
| 330,000 | 334 | M: $\pm 20\%$ | | | | ■ | | | |
| 470,000 | 474 | | | | | | ■ | | |
| 680,000 | 684 | | | | | | | ■ | |
| 1,000,000 | 105 | | | | | | ■ | | |
| 1,500,000 | 155 | | | | | | | ■ | |
| 2,200,000 | 225 | | | | | | | | ■ |
| 6,800,000 | 685 | | | ■ | | | | | |
| 10,000,000 | 106 | | | | ■ | | | | |
| 22,000,000 | 226 | | | | | | | | |
| 47,000,000 | 476 | | | | | ■ | | | |

Standard Thickness
 5.00 mm



Capacitance Range Chart

CKG57N [EIA CC2220]

Capacitance Range Chart

Temperature Characteristics: X5R ($\pm 15\%$), X7R ($\pm 15\%$), X7S ($\pm 22\%$), X7T ($+ 22/-33\%$)

Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A), 50V (1H), 25V (1E), 16V (1C)

| Capacitance (pF) | Code | Tolerance | X5R | | | | X7R | | | | | |
|------------------|------|---------------|-----------|----------|----------|----------|-----------|-----------|-----------|----------|----------|----------|
| | | | 2A (100V) | 1H (50V) | 1E (25V) | 1C (16V) | 2J (630V) | 2E (250V) | 2A (100V) | 1H (50V) | 1E (25V) | 1C (16V) |
| 470,000 | 474 | M: $\pm 20\%$ | | | | | ■ | | | | | |
| 1,000,000 | 105 | | | | | | | ■ | | | | |
| 2,200,000 | 225 | | | | | | | | ■ | | | |
| 4,700,000 | 475 | | | | | | | | | ■ | | |
| 10,000,000 | 106 | | ■ | | | | | | | ■ | | |
| 22,000,000 | 226 | | | ■ | | | | | | | ■ | |
| 33,000,000 | 336 | | | | | | | | | | | ■ |
| 47,000,000 | 476 | | | | | ■ | | | | | | |
| 100,000,000 | 107 | | | | | | | | | | | ■ |

| Capacitance (pF) | Code | Tolerance | X7S | | | | X7T | | |
|------------------|------|---------------|-----------|----------|----------|----------|-----------|-----------|-----------|
| | | | 2A (100V) | 1H (50V) | 1E (25V) | 1C (16V) | 2J (630V) | 2W (450V) | 2E (250V) |
| 680,000 | 684 | M: $\pm 20\%$ | | | | | ■ | | |
| 1,000,000 | 105 | | | | | | | ■ | |
| 1,500,000 | 155 | | | | | | | | ■ |
| 2,200,000 | 225 | | | | | | | | |
| 3,300,000 | 335 | | | | | | | | |
| 22,000,000 | 226 | | ■ | ■ | | | | | |
| 47,000,000 | 476 | | | | ■ | | | | |
| 100,000,000 | 107 | | | | | ■ | | | |

Standard Thickness
 5.00 mm



Capacitance Range Table

Class 2 (Temperature Stable)

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

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | TDK Part Number | | | |
|-------------|------|----------------|-----------------------|-------------------------|------------------------|------------------------|------------------------|
| | | | | Rated Voltage Edc: 100V | Rated Voltage Edc: 50V | Rated Voltage Edc: 25V | Rated Voltage Edc: 16V |
| 10 µF | 4532 | 5.00 ± 0.50 | ± 20% | | CKG45NX5R1H106M500JH | | |
| | 5750 | 5.00 ± 0.50 | ± 20% | CKG57NX5R2A106M500JH | | | |
| 22 µF | 5750 | 5.00 ± 0.50 | ± 20% | | CKG57NX5R1H226M500JH | | |
| 47 µF | 4532 | 5.00 ± 0.50 | ± 20% | | | | CKG45NX5R1C476M500JH |
| | 5750 | 5.00 ± 0.50 | ± 20% | | | CKG57NX5R1E476M500JH | |
| 100 µF | 5750 | 5.00 ± 0.50 | ± 20% | | | | CKG57NX5R1C107M500JH |

Class 2 (Temperature Stable)

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

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | TDK Part Number | | | | |
|-------------|-------------|----------------------|-----------------------|-------------------------|-------------------------|-------------------------|------------------------|--|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 250V | Rated Voltage Edc: 100V | Rated Voltage Edc: 50V | |
| 47 nF | 3225 | 3.35 ± 0.10 | ± 10% | CKG32KX7R2J473K335AH | | | | |
| | | | ± 20% | CKG32KX7R2J473M335AH | | | | |
| 100 nF | 3225 | 3.35 ± 0.10 | ± 10% | | CKG32KX7R2E104K335AH | | | |
| | | | ± 20% | | CKG32KX7R2E104M335AH | | | |
| | 4532 | 2.90 ± 0.10 | ± 10% | CKG45KX7R2J104K290JH | | | | |
| | | | ± 20% | CKG45KX7R2J104M290JH | | | | |
| 220 nF | 3225 | 3.35 ± 0.10 | ± 10% | | CKG32KX7R2E224K335AH | | | |
| | | | ± 20% | | CKG32KX7R2E224M335AH | | | |
| | 4532 | 2.90 ± 0.10 | ± 10% | | CKG45KX7R2E224K290JH | | | |
| | | | ± 20% | | CKG45KX7R2E224M290JH | | | |
| | | 5750 | 3.35 ± 0.15 | ± 10% | CKG45NX7R2J224M500JH | | | |
| | | | | ± 20% | CKG57KX7R2J224M335JH | | | |
| 470 nF | 3225 | 3.35 ± 0.10 | ± 10% | | | CKG32KX7R2A474K335AH | | |
| | | | ± 20% | | | CKG32KX7R2A474M335AH | | |
| | 4532 | 2.90 ± 0.10 | ± 10% | | CKG45KX7R2E474K290JH | | | |
| | | | ± 20% | | CKG45KX7R2E474M290JH | | | |
| | | | ± 20% | | CKG45NX7R2E474M500JH | | | |
| | 5750 | 3.35 ± 0.15 | ± 10% | | CKG57KX7R2E474K335JH | | | |
| | | | ± 20% | | CKG57KX7R2E474M335JH | | | |
| | | | ± 20% | CKG57NX7R2J474M500JH | | | | |
| 1 µF | 3225 | 3.35 ± 0.10 | ± 10% | | | CKG32KX7R2A105K335AH | CKG32KX7R1H105K335AH | |
| | | | ± 20% | | | CKG32KX7R2A105M335AH | CKG32KX7R1H105M335AH | |
| | 4532 | 2.90 ± 0.10 | ± 10% | | | CKG45KX7R2A105K290JH | | |
| | | | ± 20% | | | CKG45KX7R2A105M290JH | | |
| | 5750 | 3.35 ± 0.15 | ± 10% | | CKG45NX7R2E105M500JH | | | |
| | | | ± 20% | | CKG57KX7R2E105K335JH | CKG57KX7R2A105K335JH | | |
| ± 20% | | CKG57NX7R2E105M500JH | | | | | | |
| 1.5 µF | 4532 | 2.90 ± 0.10 | ± 10% | | | | CKG45KX7R1H155K290JH | |
| | | | ± 20% | | | | CKG45KX7R1H155M290JH | |
| 2.2 µF | 3225 | 3.35 ± 0.10 | ± 10% | | | CKG32KX7R2A225K335AH | | |
| | | | ± 20% | | | CKG32KX7R2A225M335AH | | |
| | 4532 | 2.90 ± 0.10 | ± 10% | | | CKG45KX7R2A225K290JH | | |
| | | | ± 20% | | | CKG45KX7R2A225M290JH | | |
| | | | ± 20% | | | CKG45NX7R2A225M500JH | | |
| | | | ± 10% | | | CKG57KX7R2A225K335JH | | |
| 5750 | 3.35 ± 0.15 | ± 20% | | CKG57KX7R2A225M335JH | | | | |
| | | ± 20% | | CKG57NX7R2E225M500JH | CKG57NX7R2A225M500JH | | | |
| 3.3 µF | 4532 | 2.90 ± 0.10 | ± 10% | | | | CKG45KX7R1H335K290JH | |
| | | | ± 20% | | | | CKG45KX7R1H335M290JH | |
| | 5750 | 3.35 ± 0.15 | ± 20% | | | | CKG45NX7R1H335M500JH | |
| | | | ± 10% | | | CKG57KX7R2A335K335JH | | |
| ± 20% | | | CKG57KX7R2A335M335JH | | | | | |



Capacitance Range Table

Class 2 (Temperature Stable)

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

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | TDK Part Number | | | |
|-------------|-------------|----------------|-----------------------|-------------------------|------------------------|------------------------|------------------------|
| | | | | Rated Voltage Edc: 100V | Rated Voltage Edc: 50V | Rated Voltage Edc: 25V | Rated Voltage Edc: 16V |
| 4.7 µF | 3225 | 3.35 ± 0.10 | ± 10% | | | CKG32KX7R1E475K335AH | |
| | | | ± 20% | | | CKG32KX7R1E475M335AH | |
| | 4532 | 2.90 ± 0.10 | ± 10% | | | CKG45KX7R1E475K290JH | |
| | | | ± 20% | | | CKG45KX7R1E475M290JH | |
| | 5750 | 5.00 ± 0.50 | ± 20% | CKG45NX7R2A475M500JH | | | |
| | | | ± 10% | CKG57KX7R2A475K335JH | CKG57KX7R1H475K335JH | | |
| 5750 | 3.35 ± 0.15 | ± 20% | CKG57KX7R2A475M335JH | CKG57KX7R1H475M335JH | | | |
| | | ± 20% | CKG57NX7R2A475M500JH | | | | |
| 6.8 µF | 4532 | 5.00 ± 0.50 | ± 20% | | CKG45NX7R1H685M500JH | | |
| | | | ± 10% | | | CKG32KX7R1E106K335AH | |
| 10 µF | 3225 | 3.35 ± 0.10 | ± 20% | | | CKG32KX7R1E106M335AH | |
| | | | ± 10% | | | | CKG45KX7R1C106K290JH |
| | 4532 | 2.90 ± 0.10 | ± 20% | | | | CKG45KX7R1C106M290JH |
| | | | ± 20% | | | CKG45NX7R1E106M500JH | |
| | 5750 | 3.35 ± 0.15 | ± 10% | | | CKG57KX7R1E106K335JH | |
| | | | ± 20% | | | CKG57KX7R1E106M335JH | |
| 5750 | 5.00 ± 0.50 | ± 20% | CKG57NX7R2A106M500JH | CKG57NX7R1H106M500JH | | | |
| | | ± 20% | | | | | |
| 15 µF | 5750 | 3.35 ± 0.15 | ± 20% | | | | CKG57KX7R1C156M335JH |
| | | | ± 20% | | | | CKG45KX7R1C226M290JH |
| 22 µF | 4532 | 2.90 ± 0.10 | ± 20% | | | | CKG45NX7R1C226M500JH |
| | | | ± 20% | | | CKG57KX7R1E226M335JH | |
| | 5750 | 3.35 ± 0.15 | ± 20% | | | CKG57NX7R1E226M500JH | |
| | | | ± 20% | | | | |
| 33 µF | 5750 | 5.00 ± 0.50 | ± 20% | | | | CKG57NX7R1C336M500JH |

Class 2 (Temperature Stable)

Temperature Characteristics: X7S (-55 to +125°C, ±22%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | TDK Part Number | | | |
|-------------|-------------|----------------|-----------------------|-------------------------|------------------------|------------------------|------------------------|
| | | | | Rated Voltage Edc: 100V | Rated Voltage Edc: 50V | Rated Voltage Edc: 25V | Rated Voltage Edc: 16V |
| 3.3 µF | 3225 | 3.35 ± 0.10 | ± 10% | CKG32KX7S2A335K335AH | | | |
| | | | ± 20% | CKG32KX7S2A335M335AH | | | |
| | 4532 | 2.90 ± 0.10 | ± 10% | CKG45KX7S2A335K290JH | | | |
| | | | ± 20% | CKG45KX7S2A335M290JH | | | |
| 4.7 µF | 3225 | 3.35 ± 0.10 | ± 10% | CKG32KX7S2A475K335AH | CKG32KX7S1H475K335AH | | |
| | | | ± 20% | CKG32KX7S2A475M335AH | CKG32KX7S1H475M335AH | | |
| | 4532 | 2.90 ± 0.10 | ± 10% | CKG45KX7S2A475K290JH | CKG45KX7S1H475K290JH | | |
| | | | ± 20% | CKG45KX7S2A475M290JH | CKG45KX7S1H475M290JH | | |
| 6.8 µF | 3225 | 3.35 ± 0.10 | ± 10% | | CKG32KX7S1H685K335AH | | |
| | | | ± 20% | | CKG32KX7S1H685M335AH | | |
| | 4532 | 5.00 ± 0.50 | ± 20% | CKG45NX7S2A685M500JH | | | |
| | | | ± 10% | CKG57KX7S2A685K335JH | | | |
| 5750 | 3.35 ± 0.15 | ± 20% | CKG57KX7S2A685M335JH | | | | |
| | | ± 20% | | | | | |
| 10 µF | 3225 | 3.35 ± 0.10 | ± 10% | | CKG32KX7S1H106K335AH | | |
| | | | ± 20% | | CKG32KX7S1H106M335AH | | |
| | 4532 | 5.00 ± 0.50 | ± 20% | CKG45NX7S2A106M500JH | CKG45NX7S1H106M500JH | | |
| | | | ± 10% | CKG57KX7S2A106K335JH | CKG57KX7S1H106K335JH | | |
| 5750 | 3.35 ± 0.15 | ± 20% | CKG57KX7S2A106M335JH | CKG57KX7S1H106M335JH | | | |
| | | ± 20% | | | | | |
| 15 µF | 5750 | 3.35 ± 0.15 | ± 20% | CKG57KX7S2A156M335JH | | | |
| | | | ± 20% | | | | |
| 22 µF | 4532 | 2.90 ± 0.10 | ± 20% | | | | CKG45KX7S1C226M290JH |
| | | | ± 20% | | | | |
| 5750 | 5.00 ± 0.50 | ± 20% | CKG57NX7S2A226M500JH | CKG57NX7S1H226M500JH | | | |
| | | ± 20% | | | | | |
| 47 µF | 4532 | 5.00 ± 0.50 | ± 20% | | | | CKG45NX7S1C476M500JH |
| | | | ± 20% | | | | CKG57KX7S1C476M335JH |
| | 5750 | 3.35 ± 0.15 | ± 20% | | | | |
| ± 20% | | | | | CKG57NX7S1E476M500JH | | |
| 100 µF | 5750 | 5.00 ± 0.50 | ± 20% | | | | CKG57NX7S1C107M500JH |



Capacitance Range Table

Class 2 (Temperature Stable)

Temperature Characteristics: X7T (-55 to +125°C, +22/-33%)

| Capacitance | Size | Thickness (mm) | Capacitance Tolerance | TDK Part Number | | |
|-------------|----------------------|----------------|-----------------------|-------------------------|-------------------------|-------------------------|
| | | | | Rated Voltage Edc: 630V | Rated Voltage Edc: 450V | Rated Voltage Edc: 250V |
| 100 nF | 3225 | 3.35 ± 0.10 | ± 10% | CKG32KX7T2J104K335AH | | |
| | | | ± 20% | CKG32KX7T2J104M335AH | | |
| 150 nF | 3225 | 3.35 ± 0.10 | ± 10% | CKG32KX7T2J154K335AH | | |
| | | | ± 20% | CKG32KX7T2J154M335AH | | |
| | 4532 | 2.90 ± 0.10 | ± 10% | CKG45KX7T2J154K290JH | | |
| | | | ± 20% | CKG45KX7T2J154M290JH | | |
| 220 nF | 3225 | 3.35 ± 0.10 | ± 10% | CKG32KX7T2W224K335AH | | |
| | | | ± 20% | CKG32KX7T2W224M335AH | | |
| | 4532 | 2.90 ± 0.10 | ± 10% | CKG45KX7T2J224K290JH | | |
| | | | ± 20% | CKG45KX7T2J224M290JH | | |
| 330 nF | 3225 | 3.35 ± 0.10 | ± 10% | CKG32KX7T2E334K335AH | | |
| | | | ± 20% | CKG32KX7T2E334M335AH | | |
| | 4532 | 2.90 ± 0.10 | ± 10% | CKG45KX7T2W334K290JH | | |
| | | | ± 20% | CKG45KX7T2W334M290JH | | |
| | 5750 | 3.35 ± 0.15 | ± 10% | CKG45NX7T2J334M500JH | | |
| | | | ± 20% | CKG57KX7T2J334K335JH | | |
| ± 20% | CKG57KX7T2J334M335JH | | | | | |
| 470 nF | 4532 | 2.90 ± 0.10 | ± 10% | CKG45KX7T2W474K290JH | | |
| | | | ± 20% | CKG45KX7T2W474M290JH | | |
| | 5750 | 3.35 ± 0.15 | ± 10% | CKG45NX7T2J474M500JH | | |
| | | | ± 20% | CKG57KX7T2J474K335JH | | |
| ± 20% | CKG57KX7T2J474M335JH | | | | | |
| 680 nF | 4532 | 2.90 ± 0.10 | ± 10% | CKG45KX7T2E684K290JH | | |
| | | | ± 20% | CKG45KX7T2E684M290JH | | |
| | 5750 | 3.35 ± 0.15 | ± 10% | CKG45NX7T2W684M500JH | | |
| | | | ± 20% | CKG57KX7T2W684K335JH | | |
| | 5750 | 5.00 ± 0.50 | ± 10% | CKG57KX7T2W684M335JH | | |
| | | | ± 20% | CKG57NX7T2J684M500JH | | |
| 1 µF | 4532 | 2.90 ± 0.10 | ± 10% | CKG45KX7T2E105K290JH | | |
| | | | ± 20% | CKG45KX7T2E105M290JH | | |
| | 5750 | 3.35 ± 0.15 | ± 10% | CKG45NX7T2W105M500JH | | |
| | | | ± 20% | CKG57KX7T2W105K335JH | | |
| | 5750 | 5.00 ± 0.50 | ± 10% | CKG57KX7T2W105M335JH | | |
| | | | ± 20% | CKG57NX7T2J105M500JH | | |
| 1.5 µF | 4532 | 5.00 ± 0.50 | ± 10% | CKG45NX7T2E155M500JH | | |
| | | | ± 20% | CKG57KX7T2E155K335JH | | |
| | 5750 | 3.35 ± 0.15 | ± 20% | CKG57KX7T2E155M335JH | | |
| | | | ± 20% | CKG57NX7T2W155M500JH | | |
| 2.2 µF | 4532 | 5.00 ± 0.50 | ± 20% | CKG45NX7T2E225M500JH | | |
| | | | ± 10% | CKG57KX7T2E225K335JH | | |
| | 5750 | 3.35 ± 0.15 | ± 20% | CKG57KX7T2E225M335JH | | |
| | | | ± 20% | CKG57NX7T2W225M500JH | | |
| 3.3 µF | 5750 | 5.00 ± 0.50 | ± 20% | CKG57NX7T2E335M500JH | | |

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



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Разъемы специального, военного и аэрокосмического назначения:

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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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