C Series

For Smoothing SMD

#### **FEATURES**

- Providing capacitance values in the range of electrolytic types and long service life, this product is recommended for highreliability power supply applications.
- Low ESR and excellent frequency characteristics make this capacitor a superior choice for high-frequency and high-density power supplies.

### **APPLICATIONS**

DC to DC converters, switching power supplies.

### PRODUCT IDENTIFICATION

 $\frac{\text{C}}{(1)} \frac{3225}{(2)} \frac{\text{X7R}}{(3)} \frac{1\text{E}}{(4)} \frac{105}{(5)} \frac{\text{M}}{(6)} \frac{\square}{(7)}$ 

### (1) Series name

### (2) Dimensions L×W

3225	3.2×2.5mm	
4532	4.5×3.2mm	
5750	5.7×5.0mm	

### (3) Capacitance temperature characteristics

### Class 2

Temperature characteristics	Capacitance change	Temperature range
X7R	±15%	–55 to +125°C
X5R	±15%	–55 to +85°C
Y5V	+22, -82%	−30 to +85°C

### (4) Rated voltage Edc

OJ	6.3V	
1A	10V	
1C	16V	
1E	25V	
1H	50V	

### (5) Nominal capacitance

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.

	105	1000000pF[1µF]
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### (6) Capacitance tolerance

K	±10%	
M	±20%	
Z	+80, -20%	

### (7) Packaging style

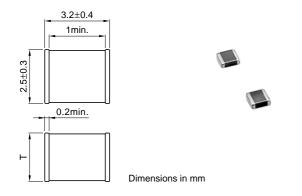
` '	0 0 ,	
T		Taping (reel)
В		Bulk

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For Smoothing SMD

### C Series

# C3225 (EIA:CC1210) TYPE SHAPES AND DIMENSIONS



### CAPACITANCE RANGES:

### TEMPERATURE CHARACTERISTICS: X7R(±15%), X5R(±15%)

#### RATED VOLTAGE Edc: 50V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
680000	±10%	1.6±0.2	C3225X7R1H684K
660000	±20%	1.6±0.2	C3225X7R1H684M
1000000	±10%	1.6±0.2	C3225X7R1H105K
[1µF]	±20%	1.6±0.2	C3225X7R1H105M
1500000	±10%	2.0±0.2	C3225X7R1H155K
[1.5µF]	±20%	2.0±0.2	C3225X7R1H155M
2200000*	±10%	2.5±0.3	C3225X5R1H225K
[2.5µF]	±20%	2.5±0.3	C3225X5R1H225M
3300000*	±10%	2.5±0.3	C3225X5R1H335K
[3.3µF]	±20%	2.5±0.3	C3225X5R1H335M

<sup>\*</sup> X5R only

### RATED VOLTAGE Edc: 25V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
3300000	±10%	1.6±0.2	C3225X7R1E335K
[3.3µF]	±20%	1.6±0.2	C3225X7R1E335M
4700000	±10%	2.0±0.2	C3225X7R1E475K
[4.7µF]	±20%	2.0±0.2	C3225X7R1E475M

### RATED VOLTAGE Edc: 16V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
6800000	±10%	2.0±0.2	C3225X5R1C685K
[6.8µF]	±20%	2.0±0.2	C3225X5R1C685M
10000000	±10%	2.0±0.2	C3225X5R1C106K
[10µF]	±20%	2.0±0.2	C3225X5R1C106M

### TEMPERATURE CHARACTERISTICS: X5R(±15%)

RATED VOLTAGE Edc: 10V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
15000000 [15µF]	±20%	2.3±0.2	C3225X5R1A156M
22000000 [22µF]	±20%	2.3±0.2	C3225X5R1A226M

### RATED VOLTAGE Edc: 6.3V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
22000000 [22µF]	±20%	2.5±0.3	C3225X5R0J226M
33000000 [33µF]	±20%	2.5±0.3	C3225X5R0J336M
47000000 [47µF]	±20%	2.5±0.3	C3225X5R0J476M

### TEMPERATURE CHARACTERISTICS: Y5V(+22, -82%)

RATED VOLTAGE Edc:50V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
4700000 [4.7μF]	+80, –20%	1.6±0.2	C3225Y5V1H475Z

### RATED VOLTAGE Edc:25V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
10000000 [10uF]	+80, –20%	1.6±0.2	C3225Y5V1E106Z

### RATED VOLTAGE Edc:16V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.	
22000000 [22uF]	+80, –20%	2.0±0.2	C3225Y5V1C226Z	

### RATED VOLTAGE Edc:10V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
47000000 [47uF]	+80, –20%	,	C3225Y5V1A476Z

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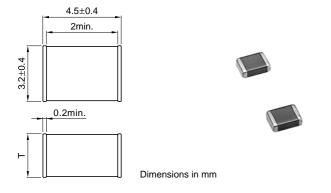
- For more information about products with other capacitance or other data, please contact us.
- Please contact us for the capacitance tolerance ±10% products over 10µF.
   with temperature characteristics B, X7R and X5R.



For Smoothing SMD

### C Series

# C4532 (EIA:CC1812) TYPE SHAPES AND DIMENSIONS



# CAPACITANCE RANGES: CLASS 2

### TEMPERATURE CHARACTERISTICS: X7R(±15%), X5R(±15%)

### RATED VOLTAGE Edc: 50V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
2200000	±10%	1.6±0.2	C4532X7R1H225K
[2.2µF]	±20%	1.6±0.2	C4532X7R1H225M
3300000	±10%	2.0±0.2	C4532X7R1H335K
[3.3µF]	±20%	2.0±0.2	C4532X7R1H335M

### RATED VOLTAGE Edc: 25V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
4700000	±10%	1.6±0.2	C4532X7R1E475K
[4.7µF]	±20%	1.6±0.2	C4532X7R1E475M
6800000	±10%	2.0±0.2	C4532X7R1E685K
[6.8µF]	±20%	2.0±0.2	C4532X7R1E685M
10000000	±10%	2.5±0.3	C4532X7R1E106K
[10µF]	±20%	2.5±0.3	C4532X7R1E106M
15000000 [15µF]	±20%	2.8±0.3	C4532X5R1E156M

### RATED VOLTAGE Edc: 16V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
15000000 [15µF]	±20%	2.5±0.3	C4532X5R1C156M
22000000 [22µF]	±20%	2.5±0.3	C4532X5R1C226M

### TEMPERATURE CHARACTERISTICS: X5R(±15%)

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$\Delta$		$V \setminus J$	1 /4(3)		()) V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
47000000 [47µF]	±20%	2.5±0.3	C4532X5R0J476M
68000000 [68µF]	±20%	2.8±0.3	C4532X5R0J686M
100000000 [100µF]	±20%	2.8±0.3	C4532X5R0J107M

### TEMPERATURE CHARACTERISTICS: Y5V(+22, -82%)

### RATED VOLTAGE Edc:50V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.	
10000000 [10uF]	+80, –20%	2.0±0.2	C4532Y5V1H106Z	

### RATED VOLTAGE Edc:25V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.	
22000000 [22uF]	+80, –20%	2.0±0.2	C4532Y5V1E226Z	

### RATED VOLTAGE Edc:16V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.	
47000000 [47µF]	+80, –20%	2.5±0.3	C4532Y5V1C476Z	

### RATED VOLTAGE Edc:10V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
100000000 [100µF]	+80, –20%	2.5±0.3	C4532Y5V1A107Z

Please contact us for the capacitance tolerance ±10% products over 10µF.
 with temperature characteristics B, X7R and X5R.

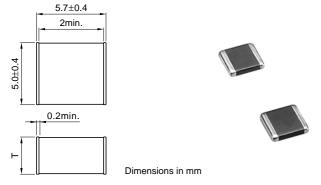


For more information about products with other capacitance or other data, please contact us.

For Smoothing SMD

### C Series

# C5750 (EIA:CC2220) TYPE SHAPES AND DIMENSIONS



### CAPACITANCE RANGES: CLASS 2 (TEMPERATURE STABLE) TEMPERATURE CHARACTERISTICS: X7R(±15%), X5R(±5%)

RATED VOLTAGE Edc: 50V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
4700000	±10%	2.0±0.2	C5750X7R1H475K
[4.7µF]	±20%	2.0±0.2	C5750X7R1H475M
6800000	±10%	2.5±0.3	C5750X7R1H685K
[6.8µF]	±20%	2.5±0.3	C5750X7R1H685M
10000000*	±10%	2.3±0.2	C5750X5R1H106K
[10µF]	±20%	2.3±0.2	C5750X5R1H106M

<sup>\*</sup> X5R only

### RATED VOLTAGE Edc: 25V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
10000000	±10%	2.0±0.2	C5750X7R1E106K
[10µF]	±20%	2.0±0.2	C5750X7R1E106M
15000000 [15µF]	±20%	2.3±0.2	C5750X7R1E156M
22000000 [22µF]	±20%	2.5±0.3	C5750X7R1E226M

### TEMPERATURE CHARACTERISTICS: X5R(±15%)

RATED VOLTAGE Edc: 16V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
33000000 [33µF]	±20%	2.0±0.2	C5750X5R1C336M
47000000 [47µF]	±20%	2.3±0.2	C5750X5R1C476M

### RATED VOLTAGE Edc: 10V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
68000000 [68µF]	±20%	2.3±0.2	C5750X5R1A686M

### RATED VOLTAGE Edc: 6.3V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.	
100000000 [100µF]	±20%	2.8±0.3	C5750X5R0J107M	

### TEMPERATURE CHARACTERISTICS: Y5V(+22, -82%)

RATED VOLTAGE Edc:50V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
22000000 [22µF]	+80, –20%	2.0±0.2	C5750Y5V1H226Z

### RATED VOLTAGE Edc:25V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.
47000000 [47μF]	+80, –20%	2.0±0.2	C5750Y5V1E476Z

#### RATED VOLTAGE Edc:16V

Capacitance (pF)	Tolerance	Thickness (mm)	Part No.	
100000000 [100µF]	+80, –20%	2.5±0.3	C5750Y5V1C107Z	

For more information about products with other capacitance or other data, please contact us.

Please contact us for the capacitance tolerance ±10% products over 10µF.
 with temperature characteristics B, X7R and X5R.

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