

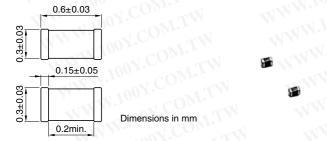
## **General Multilayer Ceramic Chip Capacitors** C Series C0603 (EIA CC0201) Type

Conformity to RoHS Directive

#### **FEATURES**

- · High capacitance has been achieved through precision technologies that enable the use of multiple thinner ceramic dielectric layers.
- A monolithic structure ensures superior mechanical strength and reliability.
- High-accuracy automatic mounting is facilitated through the maintenance of very precise dimensional tolerances.
- Composed of only ceramics and metals, these capacitors provide extremely dependable performance, exhibiting virtually no degradation even when subjected to temperature extremes.
- Low stray capacitance ensures high conformity with nominal values, thereby simplifying the circuit design process.
- Low residual inductance assures superior frequency characteristics.
- Because electrostatic capacity has been obtained up to the electrolytic capacitor range, these capacitors offer long service life and are optimally suited for power supply designs that require high levels of reliability.
- Owing to their low ESR and excellent frequency characteristics, these products are optimally suited for high frequency and highdensity type power supplies.

#### SHAPES AND DIMENSIONS



#### PRODUCT IDENTIFICATION

特力材料886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

(1) Series name

(2) Dimens	ions L×W	
0603	0.6×0.3mm	

#### (3) Capacitance temperature characteristics

#### Class 1 (Temperature compensation)

Temperature characteristics	Capacitance change	Temperature range
CH	0±60ppm/°C	−25 to +85°C
COG	0±30ppm/°C	-55 to +125°C

#### Class 2 (Temperature stable and general purpose)

Temperature characteristics	Capacitance change	Temperature range
JB	±10%	−25 to +85°C
JF	+30, -80%	–25 to +85°C
X7R	±15%	–55 to +125°C
X5R	±15%	−55 to +85°C
Y5V	+22, -82%	−30 to +85°C

#### (4) Rated voltage Edc

0J	6.3V	W.
1A	10V	-XI 100 x
1C	16V	144.
1E	25V	-1XX 100

#### (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.

010	1pF	W.100 COM.
100	10pF	MA, 100X.CO
102	1,000pF	TAN IN COM
0R5	0.5pF	<u> </u>
W. Ivo	COM	CO,
(6) Capacitan	ce tolerance	

#### (6) Capacitance tolerance

Symbol	Tolerance	Applicable capacitance range
С	±0.25pF	10nE or loss
D	±0.5pF	—— 10pF or less
J	±5%	M. 100x.
K	±10%	Over 1075
M	±20%	— Over 10pF
Z	+80, -20%	TANN.

#### (7) Packaging style

T	Taping (reel)	_1
В	Bulk	N



RATED VOLTAGE Edc: 25V

Capacitance Tolorano		Thickness T	Part No.	TW	<del></del>
(pF)	Tolerance	(mm) Temperature characteristics: CH Temperature characteristi		Temperature characteristics: C00	G
0.5	±0.25pF	0.30±0.03	C0603CH1E0R5C	C0603C0G1E0R5C	
0.75	±0.25pF	0.30±0.03	C0603CH1ER75C	C0603C0G1ER75C	_
1	±0.25pF	0.30±0.03	C0603CH1E010C	C0603C0G1E010C	<del></del>
1.5	±0.25pF	0.30±0.03	C0603CH1E1R5C	C0603C0G1E1R5C	
2	±0.25pF	0.30±0.03	C0603CH1E020C	C0603C0G1E020C	勝特力材料8
3	±0.25pF	0.30±0.03	C0603CH1E030C	C0603C0G1E030C	
4	±0.25pF	0.30±0.03	C0603CH1E040C	C0603C0G1E040C	胜特力电子(上海) 8
5	±0.25pF	0.30±0.03	C0603CH1E050C	C0603C0G1E050C	胜特力电子(深圳) 8
6	±0.5pF	0.30±0.03	C0603CH1E060D	C0603C0G1E060D	Http://www.1
7	±0.5pF	0.30±0.03	C0603CH1E070D	C0603C0G1E070D	irep.//www.r
8 (0)	±0.5pF	0.30±0.03	C0603CH1E080D	C0603C0G1E080D	TW
9	±0.5pF	0.30±0.03	C0603CH1E090D	C0603C0G1E090D	1.7
10 7	±0.5pF	0.30±0.03	C0603CH1E100D	C0603C0G1E100D	
12	±5%	0.30±0.03	C0603CH1E120J	C0603C0G1E120J	<u>M</u> 1. ,
15	±5%	0.30±0.03	C0603CH1E150J	C0603C0G1E150J	TIME
18	±5%	0.30±0.03	C0603CH1E180J	C0603C0G1E180J	ON.
22	±5%	0.30±0.03	C0603CH1E220J	C0603C0G1E220J	
27	±5%	0.30±0.03	C0603CH1E270J	C0603C0G1E270J	TO THE TANK
33	±5%	0.30±0.03	C0603CH1E330J	C0603C0G1E330J	COM.
39	±5%	0.30±0.03	C0603CH1E390J	C0603C0G1E390J	TI
47	±5%	0.30±0.03	C0603CH1E470J	C0603C0G1E470J	
56	±5%	0.30±0.03	C0603CH1E560J	C0603C0G1E560J	T. MITH
68	±5%	0.30±0.03	C0603CH1E680J	C0603C0G1E680J	COL
82	±5%	0.30±0.03	C0603CH1E820J	C0603C0G1E820J	A. WILL
100	±5%	0.30±0.03	C0603CH1E101J	C0603C0G1E101J	ON CONTRACTOR

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#### **CAPACITANCE RANGES: CLASS 2**

#### TEMPERATURE CHARACTERISTICS: JB(±10%), X5R/X7R(±15%)

CAPACITANCE RANGES: CLASS 2 TEMPERATURE CHARACTERISTICS: JB(±10%), X5R/X7R(±15%)						
RATED VOL Capacitance	. 007.	25V Thickness T	Part No.	ON.TW WWW	N 100 Y CO.	
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R	
100	±10%	0.30±0.03	C0603JB1E101K	C0603X5R1E101K	C0603X7R1E101K	
150	±10%	0.30±0.03	C0603JB1E151K	C0603X5R1E151K	C0603X7R1E151K	
220	±10%	0.30±0.03	C0603JB1E221K	C0603X5R1E221K	C0603X7R1E221K	
330	±10%	0.30±0.03	C0603JB1E331K	C0603X5R1E331K	C0603X7R1E331K	
470	±10%	0.30±0.03	C0603JB1E471K	C0603X5R1E471K	C0603X7R1E471K	
680	±10%	0.30±0.03	C0603JB1E681K	C0603X5R1E681K	C0603X7R1E681K	
1,000	±10%	0.30±0.03	C0603JB1E102K	C0603X5R1E102K	C0603X7R1E102K	
1,500	±10%	0.30±0.03	C0603JB1E152K	C0603X5R1E152K	C0603X7R1E152K	
2,200	±10%	0.30±0.03	C0603JB1E222K	C0603X5R1E222K	C0603X7R1E222K	
3,300	±10%	0.30±0.03	C0603JB1E332K	C0603X5R1E332K	C0603X7R1E332K	

#### RATED VOLTAGE Edc: 16V

Capacitance	Talamanaa	Thickness T	Part No.	N. T. CONT.	MAN MAN CON
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R
4,700	±10%	0.30±0.03	C0603JB1C472K	C0603X5R1C472K	C0603X7R1C472K
	*	WW.IO	COM		
<b>TEMPERAT</b>	URE CHAR	ACTERISTICS:	JB(±10%), X5R(±15%)		
RATED VOL	TAGE Edc: 1	10V			
Canacitanco		Thicknose T	Part No.	CONT.	

#### TEMPERATURE CHARACTERISTICS: JB(±10%), X5R(±15%)

4,700	±10%	0.30±0.03	C0603JB1C472K	C0603X5R1C4/2K	C0603
TEMPERAT	URE CHAR	ACTERISTICS:	JB(±10%), X5R(±15%)		
RATED VOL	TAGE Edc:	10V			
Capacitance	Talavanaa	Thickness T	Part No.	LINW TO COM.	<u> </u>
(pF)	Tolerance	(mm)	Temperature characteristics:	JB Temperature characteristics: X5R	T
6,800	±10%	0.30±0.03	C0603JB1A682K	C0603X5R1A682K	N
10,000	±10%	0.30±0.03	C0603JB1A103K	C0603X5R1A103K	
		WWW.	CON CONTRACTOR	MM	TW



#### RATED VOLTAGE Edc: 6.3V

Capacitance	Tolerance	Thickness T	Part No.		
(pF)	Tolcranoc	(mm)	Temperature characteristics: JB	Temperature characteristics: 2	
15,000	±10%	0.30±0.03	C0603JB0J153K	C0603X5R0J153K	
15,000	±20%	0.30±0.03	C0603JB0J153M	C0603X5R0J153M	
00.000	±10%	0.30±0.03	C0603JB0J223K	C0603X5R0J223K	
22,000	±20%	0.30±0.03	C0603JB0J223M	C0603X5R0J223M	
20 202 31	±10%	0.30±0.03	C0603JB0J333K	C0603X5R0J333K	
33,000	±20%	0.30±0.03	C0603JB0J333M	C0603X5R0J333M	
47.000	±10%	0.30±0.03	C0603JB0J473K	C0603X5R0J473K	
47,000	±20%	0.30±0.03	C0603JB0J473M	C0603X5R0J473M	
CD 000	±10%	0.30±0.03	C0603JB0J683K	C0603X5R0J683K	
68,000	±20%	0.30±0.03	C0603JB0J683M	C0603X5R0J683M	
100.000	±10%	0.30±0.03	C0603JB0J104K	C0603X5R0J104K	
100,000	±20%	0.30±0.03	C0603JB0J104M	C0603X5R0J104M	

#### **TEMPERATURE CHARACTERISTICS: JF(+30, -80%), Y5V(+22, -82%)**

apacitance	Tolerance	Thickness T	Part No.	
oF)	Tolerance	(mm) Temperature characteristics:	JF Temperature characteristics: Y5V	
0,000	+80,-20%	0.30±0.03	C0603JF1C103Z	C0603Y5V1C103Z

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WWW.10

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<sup>•</sup> For more information about the products of other capacitance or data, please contact us.



## C Series C1005(EIA CC0402) Type

#### **Conformity to RoHS Directive**

#### **FEATURES**

- · High capacitance has been achieved through precision technologies that enable the use of multiple thinner ceramic dielectric layers.
- A monolithic structure ensures superior mechanical strength and reliability.
- High-accuracy automatic mounting is facilitated through the maintenance of very precise dimensional tolerances.
- Composed of only ceramics and metals, these capacitors provide extremely dependable performance, exhibiting virtually no degradation even when subjected to temperature extremes.
- Low stray capacitance ensures high conformity with nominal values, thereby simplifying the circuit design process.
- Low residual inductance assures superior frequency characteristics.
- Because electrostatic capacity has been obtained up to the electrolytic capacitor range, these capacitors offer long service life and are optimally suited for power supply designs that require high levels of reliability.
- Owing to their low ESR and excellent frequency characteristics, these products are optimally suited for high frequency and highdensity type power supplies.

#### SHAPES AND DIMENSIONS



#### PRODUCT IDENTIFICATION

С	1005	CH	1H	100	D	
(1)	(2)	(3)	(4)	(5)	(6)	(7)

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

(1) Series name

(2) Dimens	ions L×W	
1005	1.0×0.5mm	

#### (3) Capacitance temperature characteristics Class 1 (Temperature compensation)

Temperature characteristics	Capacitance change	Temperature range
CH	0±60ppm/°C	−25 to +85°C
COG	0±30ppm/°C	-55 to +125°C

#### Class 2 (Temperature stable and general purpose)

Temperature characteristics	Capacitance change	Temperature range
JB	±10%	−25 to +85°C
JF	+30, -80%	–25 to +85°C
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	1.100
1A	10V	100 X.C
1C	16V	W.Lo
1E	25V	1007.
1H	50V	NN.

#### (5) Nominal capacitance

The capacitance is expressed in three digit codes and in units of

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

a.cgc	are a decimal perma	
010	1pF	-3111
100	10pF	77
102	1,000pF	VV
0B5	0.5pF	4

#### (6) Capacitance tolerance

Symbol	Tolerance	Applicable capacitance range
C	±0.25pF	10=F == 1===
D	±0.5pF	— 10pF or less
J	±5%	100
K	±10%	Over 10pF
M	±20%	— Over Topi
Z	+80, -20%	MM. 100.

#### (7) Packaging style

T	Taping (reel)
В	Bulk



#### **CAPACITANCE RANGES: CLASS 1 (TEMPERATURE COMPENSATION)** TEMPERATURE CHARACTERISTICS: CH(0±60ppm/°C), C0G(0±30ppm/°C)

RATED VOLTAGE Edc: 50V

Capacitance	Toloranas	Thickness T	Part No.	TY TY	<u> </u>
(pF)	Tolerance	(mm)	Temperature characteristics: CH	Temperature characteristic	s: C0G
0.5	±0.25pF	0.50±0.05	C1005CH1H0R5C	C1005C0G1H0R5C	44
0.75	±0.25pF	0.50±0.05	C1005CH1HR75C	C1005C0G1HR75C	
1 1	±0.25pF	0.50±0.05	C1005CH1H010C	C1005C0G1H010C	<u> </u>
1.5	±0.25pF	0.50±0.05	C1005CH1H1R5C	C1005C0G1H1R5C	TW
2	±0.25pF	0.50±0.05	C1005CH1H020C	C1005C0G1H020C	Lo Je
3	±0.25pF	0.50±0.05	C1005CH1H030C	C1005C0G1H030C	TW
4	±0.25pF	0.50±0.05	C1005CH1H040C	C1005C0G1H040C	mk 11 1 11 11
5	±0.25pF	0.50±0.05	C1005CH1H050C	C1005C0G1H050C	勝特力材料886-3-5753170
6	±0.5pF	0.50±0.05	C1005CH1H060D	C1005C0G1H060D	胜特力电子(上海) 86-21-34970699
7	±0.5pF	0.50±0.05	C1005CH1H070D	C1005C0G1H070D	
8 (0)	±0.5pF	0.50±0.05	C1005CH1H080D	C1005C0G1H080D	胜特力电子(深圳) 86-755-83298787
9	±0.5pF	0.50±0.05	C1005CH1H090D	C1005C0G1H090D	Http://www.100y.com.tw
10	±0.5pF	0.50±0.05	C1005CH1H100D	C1005C0G1H100D	AND THE STATE OF T
12	±5%	0.50±0.05	C1005CH1H120J	C1005C0G1H120J	COM
15	±5%	0.50±0.05	C1005CH1H150J	C1005C0G1H150J	
18	±5%	0.50±0.05	C1005CH1H180J	C1005C0G1H180J	A COM.
22	±5%	0.50±0.05	C1005CH1H220J	C1005C0G1H220J	- OW. T.
27	±5%	0.50±0.05	C1005CH1H270J	C1005C0G1H270J	OV.CO
33	±5%	0.50±0.05	C1005CH1H330J	C1005C0G1H330J	COMPA
39	±5%	0.50±0.05	C1005CH1H390J	C1005C0G1H390J	007:0
47	±5%	0.50±0.05	C1005CH1H470J	C1005C0G1H470J	COM
56	±5%	0.50±0.05	C1005CH1H560J	C1005C0G1H560J	1007
68	±5%	0.50±0.05	C1005CH1H680J	C1005C0G1H680J	COM
82	±5%	0.50±0.05	C1005CH1H820J	C1005C0G1H820J	1100 . OM. I .
100	±5%	0.50±0.05	C1005CH1H101J	C1005C0G1H101J	TV.Com
120	±5%	0.50±0.05	C1005CH1H121J	C1005C0G1H121J	Wiles COM.
150	±5%	0.50±0.05	C1005CH1H151J	C1005C0G1H151J	TY CONTRACTOR
180	±5%	0.50±0.05	C1005CH1H181J	C1005C0G1H181J	MAN TO COMP.
220	±5%	0.50±0.05	C1005CH1H221J	C1005C0G1H221J	1001. M.TW
270	±5%	0.50±0.05	C1005CH1H271J	C1005C0G1H271J	WW. COM
330	±5%	0.50±0.05	C1005CH1H331J	C1005C0G1H331J	100 r. COM:11
390	±5%	0.50±0.05	C1005CH1H391J	C1005C0G1H391J	NW TWO YEAR
470	±5%	0.50±0.05	C1005CH1H471J	C1005C0G1H471J	COM.
	URE CHAR		JB(±10%), X5R/X7R(±15%)		
		W COAL	2 2 100	- CONF.	TO THE PARTY OF TH

TEMPERAT	LIRE CHAR	ES: CLASS 2	JB(±10%), X5R/X7R(±15%)		
RATED VOL			OD(±1070), X310X711(±1370)		
Capacitance	Tiller	Thickness T	Part No.		
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7F
220	±10%	0.50±0.05	C1005JB1H221K	C1005X5R1H221K	C1005X7R1H221K
330	±10%	0.50±0.05	C1005JB1H331K	C1005X5R1H331K	C1005X7R1H331K
470	±10%	0.50±0.05	C1005JB1H471K	C1005X5R1H471K	C1005X7R1H471K
680	±10%	0.50±0.05	C1005JB1H681K	C1005X5R1H681K	C1005X7R1H681K
1,000	±10%	0.50±0.05	C1005JB1H102K	C1005X5R1H102K	C1005X7R1H102K
1,500	±10%	0.50±0.05	C1005JB1H152K	C1005X5R1H152K	C1005X7R1H152K
2,200	±10%	0.50±0.05	C1005JB1H222K	C1005X5R1H222K	C1005X7R1H222K
3,300	±10%	0.50±0.05	C1005JB1H332K	C1005X5R1H332K	C1005X7R1H332K
4,700	±10%	0.50±0.05	C1005JB1H472K	C1005X5R1H472K	C1005X7R1H472K
6,800	±10%	0.50±0.05	C1005JB1H682K	C1005X5R1H682K	C1005X7R1H682K

#### RATED VOLTAGE Edc: 25V

characteristics: X7R
E103K
E153K
E223K
E333K
E473K



#### RATED VOLTAGE Edc: 16V

Capacitance	Tolerance	Thickness T	Part No.			
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7F	
68,000	±10%	0.50±0.05	C1005JB1C683K	C1005X5R1C683K	C1005X7R1C683K	
100,000	±10%	0.50±0.05	C1005JB1C104K	C1005X5R1C104K	C1005X7R1C104K	

#### TEMPERATURE CHARACTERISTICS: JB(±10%), X5R(±15%)

- 1	-×T	W	COM	W. CO.
			JB(±10%), X5R(±15%)	
RATED VOL Capacitance		16V Thickness T	iness T Part No.	
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5
150,000	±10%	0.50±0.05	C1005JB1C154K	C1005X5R1C154K
150,000	±20%	0.50±0.05	C1005JB1C154M	C1005X5R1C154M
000 000	±10%	0.50±0.05	C1005JB1C224K	C1005X5R1C224K
220,000	±20%	0.50±0.05	C1005JB1C224M	C1005X5R1C224M

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Capacitance	Tolerance	Thickness T	Part No.	
pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R
330.000	±10%	0.50±0.05	C1005JB1A334K	C1005X5R1A334K
30,000	±20%	0.50±0.05	C1005JB1A334M	C1005X5R1A334M
70.000	±10%	0.50±0.05	C1005JB1A474K	C1005X5R1A474K
70,000	±20%	0.50±0.05	C1005JB1A474M	C1005X5R1A474M

#### RATED VOLTAGE Edc: 6.3V

Capacitance	Tolerance	Thickness T	Part No.	M M 100
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R
680,000	±10%	0.50±0.05	C1005JB0J684K	C1005X5R0J684K
680,000	±20%	0.50±0.05	C1005JB0J684M	C1005X5R0J684M
1 000 000	±10%	0.50±0.05	C1005JB0J105K	C1005X5R0J105K
1,000,000	±20%	0.50±0.05	C1005JB0J105M	C1005X5R0J105M

## TEMPERATURE CHARACTERISTICS: JF(+30, -80%), Y5V(+22, -82%)

Capacitance	Tolerance	Thickness T	Part No.	OM
(pF)	rolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5\
100,000	+80,-20%	0.50±0.05	C1005JF1E104Z	C1005Y5V1E104Z
220,000	+80,-20%	0.50±0.05	C1005JF1E224Z	C1005Y5V1E224Z

220,000	+80,-20%	0.50±0.05	C1005JF1E224Z	C1005Y5V1E224Z	M. Inn COW.
RATED VOL	TAGE Edc: 1	10V			
Capacitance	Tolerance	Tolorana Thickness T Part No.	Part No.	COM	- TW.100 COM.
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V	1007.00
470.000	+80,-20%	0.50±0.05	C1005JF1A474Z	C1005Y5V1A474Z	

#### RATED VOLTAGE Edc: 6.3V

470,000	+60,-2078	0.30±0.03	C100331 1A4742	11	C100313V1A4742	
RATED VOL	TAGE Edc:	6.3V				
Capacitance	Talamanaa	Thickness T	Part No.		TOWN.	
(pF)	Tolerance	(mm)	Temperature characteristics: JF		Temperature characteristics: Y5\	
1,000,000	+80,–20%	0.50±0.05	C1005JF0J105Z	WIXE	C1005Y5V0J105Z	

<sup>•</sup> For more information about the products of other capacitance or data, please contact us.



## C Series C1608 (EIA CC0603) Types

#### **Conformity to RoHS Directive**

#### **FEATURES**

- High capacitance has been achieved through precision technologies that enable the use of multiple thinner ceramic dielectric layers.
- A monolithic structure ensures superior mechanical strength and reliability.
- High-accuracy automatic mounting is facilitated through the maintenance of very precise dimensional tolerances.
- Composed of only ceramics and metals, these capacitors provide extremely dependable performance, exhibiting virtually no degradation even when subjected to temperature extremes.
- Low stray capacitance ensures high conformity with nominal values, thereby simplifying the circuit design process.
- Low residual inductance assures superior frequency characteristics.
- Because electrostatic capacity has been obtained up to the electrolytic capacitor range, these capacitors offer long service life and are optimally suited for power supply designs that require high levels of reliability.
- Owing to their low ESR and excellent frequency characteristics, these products are optimally suited for high frequency and highdensity type power supplies.

#### SHAPES AND DIMENSIONS



#### PRODUCT IDENTIFICATION

 $\frac{C}{(1)} \frac{1608}{(2)} \frac{CH}{(3)} \frac{1H}{(4)} \frac{100}{(5)} \frac{D}{(6)} \frac{\Box}{(7)}$ 

(1) Series name

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

#### (2) Dimensions L×W

1608	1.6×0.8mm			

#### (3) Capacitance temperature characteristics Class 1 (Temperature compensation)

Temperature characteristics	Capacitance change	Temperature range
CH	0±60ppm/°C	–25 to +85°C
COG	0±30ppm/°C	−55 to +125°C

#### Class 2 (Temperature stable and general purpose)

Temperature characteristics	Capacitance change	Temperature range
JB	±10%	−25 to +85°C
JF	+30, -80%	−25 to +85°C
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	1.100
1A	10V	-1007.
1C	16V	11.10
1E	25V	11007
1H	50V	MA

#### (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.

3		
010	1pF	-3111
100	10pF	14
102	1,000pF	W.V.
0B5	0.5pF	4,

#### (6) Capacitance tolerance

Symbol	Tolerance	Applicable capacitance range
C	±0.25pF	10nF au laga
D	±0.5pF	— 10pF or less
J	±5%	W.100
K	±10%	Over 10pF
M	±20%	— Over Topr
Z	+80, –20%	A 14

## (7) Packaging style

T	Taping (reel)
В	Bulk



RATED VOLTAGE Edc: 50V

acitance Tolerand	Thickness T	Part No.		N
Tolerand	(mm)	Temperature characteristics: CH	Temperature characteristi	cs: C0G
±0.25pF	0.8±0.10	C1608CH1H0R5C	C1608C0G1H0R5C	
±0.25pF	0.8±0.10	C1608CH1HR75C	C1608C0G1HR75C	
±0.25pF	0.8±0.10	C1608CH1H010C	C1608C0G1H010C	1.
±0.25pF	0.8±0.10	C1608CH1H1R5C	C1608C0G1H1R5C	W
±0.25pF	0.8±0.10	C1608CH1H020C	C1608C0G1H020C	I. E.
±0.25pF	0.8±0.10	C1608CH1H030C	C1608C0G1H030C	WTI
±0.25pF	0.8±0.10	C1608CH1H040C	C1608C0G1H040C	Mr.
±0.25pF	0.8±0.10	C1608CH1H050C	C1608C0G1H050C	71.7
±0.5pF	0.8±0.10	C1608CH1H060D	C1608C0G1H060D	O INC.
±0.5pF	0.8±0.10	C1608CH1H070D	C1608C0G1H070D	
±0.5pF	0.8±0.10	C1608CH1H080D	C1608C0G1H080D	勝 特 力 材 料 886-3-5753170
±0.5pF	0.8±0.10	C1608CH1H090D	C1600C0C1H000D	胜特力电子(上海) 86-21-34970699
±0.5pF	0.8±0.10	C1608CH1H100D	C1608C0G1H100D	
±5%	0.8±0.10	C1608CH1H120J	C1608C0G1H120J	胜特力电子(深圳) 86-755-8329878
±5%	0.8±0.10	C1608CH1H150J	C1608C0G1H150J	Http://www.100y.com.tw
±5%	0.8±0.10	C1608CH1H180J	C1608C0G1H180J	nttp.//www.100y.com.tw
±5%	0.8±0.10	C1608CH1H220J	C1608C0G1H220J	
±5%	0.8±0.10	C1608CH1H270J	C1608C0G1H270J	ON CONTRACTOR
±5%	0.8±0.10	C1608CH1H330J	C1608C0G1H330J	CONT
±5%	0.8±0.10	C1608CH1H390J	C1608C0G1H390J	TY
±5%	0.8±0.10	C1608CH1H470J	C1608C0G1H470J	COM
±5%	0.8±0.10	C1608CH1H560J	C1608C0G1H560J	1001.
±5%	0.8±0.10	C1608CH1H680J	C1608C0G1H680J	COM
±5%	0.8±0.10	C1608CH1H820J	C1608C0G1H820J	21 100 1. CON. I V
±5%	0.8±0.10	C1608CH1H101J	C1608C0G1H101J	W.Co. TA
±5%	0.8±0.10	C1608CH1H121J	C1608C0G1H121J	W.In.
±5%	0.8±0.10	C1608CH1H151J	C1608C0G1H151J	1007.00
±5%	0.8±0.10	C1608CH1H181J	C1608C0G1H181J	NN.TO COM.
±5%	0.8±0.10	C1608CH1H221J	C1608C0G1H221J	100Y.
±5%	0.8±0.10	C1608CH1H271J	C1608C0G1H271J	IN W. TO COM
±5%	0.8±0.10	C1608CH1H331J	C1608C0G1H331J	1001. CON:11.
±5%	0.8±0.10	C1608CH1H391J	C1608C0G1H391J	WW TON CO. TW
±5%	0.8±0.10	C1608CH1H471J	C1608C0G1H471J	COM.
±5%	0.8±0.10	C1608CH1H561J	C1608C0G1H561J	WW 100Y.CO TETW
±5%	0.8±0.10	C1608CH1H681J	C1608C0G1H681J	COM.
±5%	0.8±0.10	C1608CH1H821J	C1608C0G1H821J	W 100Y.
0 ±5%	0.8±0.10	C1608CH1H102J	C1608C0G1H102J	WW. COM
0 ±5%	0.8±0.10	C1608CH1H152J	C1608C0G1H152J	100 r. COW. I.
0 ±5%	0.8±0.10	C1608CH1H222J	C1608C0G1H222J	MAN W. CO. TAN
0 ±5%	0.8±0.10	C1608CH1H332J	C1608C0G1H332J	- COM.

#### **CAPACITANCE RANGES: CLASS 2**

Capacitance		Thickness T	Part No.	ON CONTRACTOR	MM 100%
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7F
10,000	±10%	0.8±0.10	C1608JB1H103K	C1608X5R1H103K	C1608X7R1H103K
15,000	±10%	0.8±0.10	C1608JB1H153K	C1608X5R1H153K	C1608X7R1H153K
22,000	±10%	0.8±0.10	C1608JB1H223K	C1608X5R1H223K	C1608X7R1H223K
33,000	±10%	0.8±0.10	C1608JB1H333K	C1608X5R1H333K	C1608X7R1H333K
47,000	±10%	0.8±0.10	C1608JB1H473K	C1608X5R1H473K	C1608X7R1H473K
68,000	±10%	0.8±0.10	C1608JB1H683K	C1608X5R1H683K	C1608X7R1H683K
100,000	±10%	0.8±0.10	C1608JB1H104K	C1608X5R1H104K	C1608X7R1H104K
100,000	±20%	0.8±0.10	C1608JB1H104M	C1608X5R1H104M	C1608X7R1H104M

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#### RATED VOLTAGE Edc: 25V

Capacitance	Toloropoo	Thickness T	Part No.			
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R	
150,000	±10%	0.8±0.10	C1608JB1E154K	C1608X5R1E154K	C1608X7R1E154K	
150,000	±20%	0.8±0.10	C1608JB1E154M	C1608X5R1E154M	C1608X7R1E154M	
000 000	±10%	0.8±0.10	C1608JB1E224K	C1608X5R1E224K	C1608X7R1E224K	
220,000	±20%	0.8±0.10	C1608JB1E224M	C1608X5R1E224M	C1608X7R1E224M	
220,000	±10%	0.8±0.10	C1608JB1E334K	C1608X5R1E334K	C1608X7R1E334K	
330,000	±20%	0.8±0.10	C1608JB1E334M	C1608X5R1E334M	C1608X7R1E334M	

Capacitance	Tolerance	Thickness T	Part No.	TINN.I COM	X.
(pF)	Toloranoc	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7I
470,000	±10%	0.8+0.15, -0.1	C1608JB1C474K	C1608X5R1C474K	C1608X7R1C474K
470,000	±20%	0.8+0.15, -0.1	C1608JB1C474M	C1608X5R1C474M	C1608X7R1C474M
680,000	±10%	0.8+0.15, -0.1	C1608JB1C684K	C1608X5R1C684K	C1608X7R1C684K
000,000	±20%	0.8+0.15, -0.1	C1608JB1C684M	C1608X5R1C684M	C1608X7R1C684M
1,000,000	±10%	0.8+0.15, -0.1	C1608JB1C105K	C1608X5R1C105K	C1608X7R1C105K
1,000,000	±20%	0.8+0.15, -0.1	C1608JB1C105M	C1608X5R1C105M	C1608X7R1C105M

# TEMPERATURE CHARACTERISTICS: JB(±10%), X5R(±15%)

Capacitance	Tolerance	Thickness T	Part No.		
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristic	cs: X5R
470.000	±10%	0.8+0.15, -0.1	C1608JB1E474K	C1608X5R1E474K	100
470,000	±20%	0.8+0.15, -0.1	C1608JB1E474M	C1608X5R1E474M	n# 4
	±10%	0.8+0.15, -0.1	C1608JB1E684K	C1608X5R1E684K	勝生
680,000	±20%	0.8+0.15, -0.1	C1608JB1E684M	C1608X5R1E684M	胜特
1 000 000	±10%	0.8+0.15, -0.1	C1608JB1E105K	C1608X5R1E105K	胜特
1,000,000	±20%	0.8+0.15, -0.1	C1608JB1E105M	C1608X5R1E105M	ATE 10

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#### RATED VOLTAGE Edc: 6.3V

Capacitance Tolerance		Thickness T	Part No.	M.	COM.		
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5F	TY		
1,500,000	±10%	0.8±0.10	C1608JB0J155K	C1608X5R0J155K	W.To. A COM.		
1,500,000	±20%	0.8±0.10	C1608JB0J155M	C1608X5R0J155M			
2 200 000	±10%	0.8±0.10	C1608JB0J225K	C1608X5R0J225K	N. S. COM		
$2,200,000$ $\frac{\pm 20\%}{\pm 20\%}$	±20%	0.8±0.10	C1608JB0J225M	C1608X5R0J225M			
3,300,000	±10%	0.8±0.10	C1608JB0J335K	C1608X5R0J335K	MINISTER TO		
3,300,000	±20%	0.8±0.10	C1608JB0J335M	C1608X5R0J335M	COM.		
4 700 000	±10%	0.8±0.10	C1608JB0J475K	C1608X5R0J475K	N N 100Y.C		
4,700,000	±20%	0.8±0.10	C1608JB0J475M	C1608X5R0J475M	COM.		
6 800 000	±10%	0.8+0.15, -0.1	C1608JB0J685K	C1608X5R0J685K	A 100 F.		
6,800,000	±20%	0.8+0.15, -0.1	C1608JB0J685M	C1608X5R0J685M	- NAM ON COM.		
10,000,000	±20%	0.8+0.15, -0.1	C1608JB0J106M	C1608X5R0J106M	=W. 100 r.		

#### **TEMPERATURE CHARACTERISTICS: JF(+30, -80%), Y5V(+22, -82%)**

RATED VOLTAGE Edc: 50V

Tolerance +80,-20%	Thickness T (mm)	Part No. Temperature characteristics: JF	
.00 000/	(111111)		Temperature characteristics: Y5V
+80 -/0%	0.8±0.10	C1608JF1H104Z	C1608Y5V1H104Z
+80,-20%	0.8±0.10	C1608JF1H224Z	C1608Y5V1H224Z
+80,-20%	0.8±0.10	C1608JF1H474Z	C1608Y5V1H474Z
+80,–20%	0.8±0.10	C1608JF1H474Z	C1608Y5V1H4/4Z
_			

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#### RATED VOLTAGE Edc: 25V

RAIED VOL	IAGE Edc: 2	25V		
Capacitance Talarana		Thickness T	Part No.	To COMP.
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V
1,000,000	+80,–20%	0.8±0.10	C1608JF1E105Z	C1608Y5V1E105Z

#### RATED VOLTAGE Edc: 16V

Capacitance	Tolerance	Thickness T	Part No.		
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V	
2,200,000	+80,-20%	0.8±0.10	C1608JF1C225Z	C1608Y5V1C225Z	

#### RATED VOLTAGE Edc: 6.3V

Capacitance	<b>-</b> 1	Thickness T	Part No.	MAN COR
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V
4,700,000	+80,-20%	0.8±0.10	C1608JF0J475Z	C1608Y5V0J475Z
10,000,000	+80,-20%	0.8+0.15,-0.10	C1608JF0J106Z	C1608Y5V0J106Z
10,000,000	+80,-20%	0.8+0.15,-0.10	C1608JF0J106Z	C1608Y5V0J106Z
				W. 100x.
				ndr dd b

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<sup>•</sup> For more information about the products of other capacitance or data, please contact us.

### **&TDK**

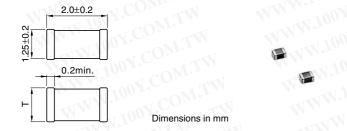
## C Series C2012 (EIA CC0805) Type

#### **Conformity to RoHS Directive**

#### **FEATURES**

- High capacitance has been achieved through precision technologies that enable the use of multiple thinner ceramic dielectric layers.
- A monolithic structure ensures superior mechanical strength and reliability.
- High-accuracy automatic mounting is facilitated through the maintenance of very precise dimensional tolerances.
- Composed of only ceramics and metals, these capacitors provide extremely dependable performance, exhibiting virtually no degradation even when subjected to temperature extremes.
- Low stray capacitance ensures high conformity with nominal values, thereby simplifying the circuit design process.
- Low residual inductance assures superior frequency characteristics.
- Because electrostatic capacity has been obtained up to the electrolytic capacitor range, these capacitors offer long service life and are optimally suited for power supply designs that require high levels of reliability.
- Owing to their low ESR and excellent frequency characteristics, these products are optimally suited for high frequency and highdensity type power supplies.

#### SHAPES AND DIMENSIONS



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#### PRODUCT IDENTIFICATION

С	2012	CH	1H	103	J	
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Series name

#### (2) Dimensions L×W 2012 2.0×1.25mm

## (3) Capacitance temperature characteristics

#### Class 1 (Temperature compensation)

Temperature characteristics	Capacitance change	Temperature range
CH	0±60ppm/°C	−25 to +85°C
C0G	0±30ppm/°C	−55 to +125°C

#### Class 2 (Temperature stable and general purpose)

Temperature characteristics	Capacitance change	Temperature range
JB	±10%	-25 to +85°C
JF	+30, -80%	−25 to +85°C
X7R	±15%	-55 to +125°C
X5R	±15%	−55 to +85°C
Y5V	+22, -82%	−30 to +85°C

#### (4) Rated voltage Edc

6.3V	IN I
10V	1007
16V	M. IV
25V	1100
50V	
	10V 16V 25V

#### (5) Nominal capacitance

The capacitance is expressed in three digit codes and in units of nico farads (nE)

The first and second digits identify the first and second significant figures of the capacitance.

The third digit identifies the multiplier.

	9	
010	1pF	44
100	10pF	W.V.
102	1,000pF	4.

#### (6) Capacitance tolerance

J 100	±5%	
K	±10%	
M	±20%	
Z	+80, -20%	

#### (7) Packaging style

		T
-XXI	NV	В



RATED VOLTAGE Edc: 50V

Capacitance Talarana		Thickness T	Part No.		
(pF)	Tolerance	(mm)	Temperature characteristics: CH	Temperature characteristics: C0G	
3,300	±5%	0.60±0.10	C2012CH1H332J	C2012C0G1H332J	
4,700	±5%	0.85±0.10	C2012CH1H472J	C2012C0G1H472J	
6,800	±5%	1.25±0.10	C2012CH1H682J	C2012C0G1H682J	
10,000	±5%	1.25±0.10	C2012CH1H103J	C2012C0G1H103J	
CAPACITAN	ICE RANGE	S: CLASS 2			
TEMPERAT			JB(±10%), X5R/X7R(±15%)		

#### CAPACITANCE RANGES: CLASS 2

CAPACITANCE RANGES: CLASS 2 TEMPERATURE CHARACTERISTICS: JB(±10%), X5R/X7R(±15%) RATED VOLTAGE Edc: 50V						
Capacitance	TV	Thickness T	Part No.	W 1007.	1.11	
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R	
150,000	±10%	1.25±0.10	C2012JB1H154K	C2012X5R1H154K	C2012X7R1H154K	
150,000	±20%	1.25±0.10	C2012JB1H154M	C2012X5R1H154M	C2012X7R1H154M	
000 000	±10%	1.25±0.10	C2012JB1H224K	C2012X5R1H224K	C2012X7R1H224K	
220,000	±20%	1.25±0.10	C2012JB1H224M	C2012X5R1H224M	C2012X7R1H224M	
000 000	±10%	1.25±0.10	C2012JB1H334K	C2012X5R1H334K	C2012X7R1H334K	
330,000	±20%	1.25±0.10	C2012JB1H334M	C2012X5R1H334M	C2012X7R1H334M	

RATED VOLTAGE Edc: 25V

Capacitance	Toloropoo	Thickness T	Part No.			
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R	
470.000	±10%	1.25±0.10	C2012JB1E474K	C2012X5R1E474K	C2012X7R1E474K	
470,000	±20%	1.25±0.10	C2012JB1E474M	C2012X5R1E474M	C2012X7R1E474M	
000,000	±10%	1.25±0.10	C2012JB1E684K	C2012X5R1E684K	C2012X7R1E684K	
680,000	±20%	1.25±0.10	C2012JB1E684M	C2012X5R1E684M	C2012X7R1E684M	
4 000 000	±10%	1.25±0.10	C2012JB1E105K	C2012X5R1E105K	C2012X7R1E105K	
1,000,000	±20%	1.25±0.10	C2012JB1E105M	C2012X5R1E105M	C2012X7R1E105M	

RATED VOLTAGE Edc: 16V

Capacitance Talarana		Thickness T	Part No.	ON.	N. Ive
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R
330,000	±10%	0.85±0.10	C2012JB1C334K	C2012X5R1C334K	C2012X7R1C334K
330,000	±20%	0.85±0.10	C2012JB1C334M	C2012X5R1C334M	C2012X7R1C334M
1 500 000	±10%	1.25±0.10	C2012JB1C155K	C2012X5R1C155K	C2012X7R1C155K
1,500,000	±20%	1.25±0.10	C2012JB1C155M	C2012X5R1C155M	C2012X7R1C155M
0.000.000	±10%	1.25±0.10	C2012JB1C225K	C2012X5R1C225K	C2012X7R1C225K
2,200,000	±20%	1.25±0.10	C2012JB1C225M	C2012X5R1C225M	C2012X7R1C225M
			JB(±10%), X5R(±15%)		
RATED VOL	TAGE Edc:	50V			
Capacitance	Tolerance	Thickness T	Part No.	100x. W.I.	= w . COM

#### TEMPERATURE CHARACTERISTICS: JB(±10%), X5R(±15%)

Capacitance	T-1	Thickness T	Part No.	1003. W.I.M.
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5F
150,000	±10%	0.85±0.10	C2012JB1H154K	C2012X5R1H154K
150,000	±20%	0.85±0.10	C2012JB1H154M	C2012X5R1H154M
220 000	±10%	0.85+0.15,-0.10	C2012JB1H224K	C2012X5R1H224K
220,000	±20%	0.85+0.15,-0.10	C2012JB1H224M	C2012X5R1H224M
		NWW.100Y.	COM.TW WY	WW.100Y.COM.T

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#### RATED VOLTAGE Edc: 25V

Capacitance	Talawanaa	Thickness T	Part No.			
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5F		
150,000	±10%	0.6±0.10	C2012JB1E154K	C2012X5R1E154K		
150,000	±20%	0.6±0.10	C2012JB1E154M	C2012X5R1E154M		
220,000	±10%	0.6±0.10	C2012JB1E224K	C2012X5R1E224K		
220,000	±20%	0.6±0.10	C2012JB1E224M	C2012X5R1E224M		
330,000	±10%	0.8+0.15,-0.10	C2012JB1E334K	C2012X5R1E334K		
	±20%	0.8+0.15,-0.10	C2012JB1E334M	C2012X5R1E334M		
470.000	±10%	0.8+0.15,-0.10	C2012JB1E474K	C2012X5R1E474K		
470,000	±20%	0.8+0.15,-0.10	C2012JB1E474M	C2012X5R1E474M		
1 000 000	±10%	1.25±0.10	C2012JB1E105K	C2012X5R1E105K		
1,000,000	±20%	1.25±0.10	C2012JB1E105M	C2012X5R1E105M		
1 500 000	±10%	1.25±0.10	C2012JB1E155K	C2012X5R1E155K		
1,500,000	±20%	1.25±0.10	C2012JB1E155M	C2012X5R1E155M		
2 200 000	±10%	1.25±0.10	C2012JB1E225K	C2012X5R1E225K		
2,200,000	±20%	1.25±0.10	C2012JB1E225M	C2012X5R1E225M		

Capacitance (pF)	Tolerance	Thickness T	Part No.	M. 100 . OM.)
	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R
330,000	±10%	0.6±0.10	C2012JB1C334K	C2012X5R1C334K
330,000	±20%	0.6±0.10	C2012JB1C334M	C2012X5R1C334M
470,000	±10%	0.6±0.10	C2012JB1C474K	C2012X5R1C474K
	±20%	0.6±0.10	C2012JB1C474M	C2012X5R1C474M
680,000	±10%	0.8+0.15,-0.10	C2012JB1C684K	C2012X5R1C684K
	±20%	0.8+0.15,-0.10	C2012JB1C684M	C2012X5R1C684M
1,000,000	±10%	0.8+0.15,-0.10	C2012JB1C105K	C2012X5R1C105K
1,000,000	±20%	0.8+0.15,-0.10	C2012JB1C105M	C2012X5R1C105M
200,000	±10%	1.25±0.20	C2012JB1C335K	C2012X5R1C335K
5,300,000	±20%	1.25±0.20	C2012JB1C335M	C2012X5R1C335M
4 700 000	±10%	1.25±0.20	C2012JB1C475K	C2012X5R1C475K
4,700,000	±20%	1.25±0.20	C2012JB1C475M	C2012X5R1C475M
3,300,000 4,700,000	±10%	1.25±0.20	C2012JB1C475K	C2012X5R1C475K

#### RATED VOLTAGE Edc: 10V

Capacitance	Tolerance	Thickness T	Part No.	Ohr MA
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5F
680,000	±10%	0.6±0.10	C2012JB1A684K	C2012X5R1A684K
660,000	±20%	0.6±0.10	C2012JB1A684M	C2012X5R1A684M
1,000,000	±10%	0.85±0.10	C2012JB1A105K	C2012X5R1A105K
1,000,000	±20%	0.85±0.10	C2012JB1A105M	C2012X5R1A105M
1 500 000	±10%	0.85±0.10	C2012JB1A155K	C2012X5R1A155K
1,500,000	±20%	0.85±0.10	C2012JB1A155M	C2012X5R1A155M
200 000 ±	±10%	0.8+0.15,-0.10	C2012JB1A225K	C2012X5R1A225K
2,200,000	±20%	0.8+0.15,-0.10	C2012JB1A225M	C2012X5R1A225M
2,200,000	±10%	1.25±0.10	C2012JB1A335K	C2012X5R1A335K
3,300,000	±20%	1.25±0.10	C2012JB1A335M	C2012X5R1A335M
2,200,000	±10%	1.25±0.10	C2012JB1A475K	C2012X5R1A475K
4,700,000	±20%	1.25±0.10	C2012JB1A475M	C2012X5R1A475M
6,800,000	±10%	1.25±0.10	C2012JB1A685K	C2012X5R1A685K
6,600,000	±20%	1.25±0.10	C2012JB1A685M	C2012X5R1A685M
10,000,000	±10%	1.25±0.10	C2012JB1A106K	C2012X5R1A106K
10,000,000	±20%	1.25±0.10	C2012JB1A106M	C2012X5R1A106M

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#### RATED VOLTAGE Edc: 6.3V

Capacitance	T-1	Thickness T	Part No.			
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R		
1,000,000	±10%	0.6±0.10	C2012JB0J105K	C2012X5R0J105K		
1,000,000	±20%	0.6±0.10	C2012JB0J105M	C2012X5R0J105M		
0.000.000	±10%	0.85+0.15,-0.10	C2012JB0J335K	C2012X5R0J335K		
3,300,000	±20%	0.85+0.15,-0.10	C2012JB0J335M	C2012X5R0J335M		
4,700,000	±10%	0.85+0.15,-0.10	C2012JB0J475K	C2012X5R0J475K		
	±20%	0.85+0.15,-0.10	C2012JB0J475M	C2012X5R0J475M		
0.000.000	±10%	1.25±0.20	C2012JB0J685K	C2012X5R0J685K		
6,800,000	±20%	1.25±0.20	C2012JB0J685M	C2012X5R0J685M		
10,000,000	±10%	1.25±0.20	C2012JB0J106K	C2012X5R0J106K		
10,000,000	±20%	1.25±0.20	C2012JB0J106M	C2012X5R0J106M		
15,000,000	±20%	1.25±0.20	C2012JB0J156M	C2012X5R0J156M		
22,000,000	±20%	1.25±0.20	C2012JB0J226M	C2012X5R0J226M		
		71 71				

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

RATED VOLTAGE Edc: 25V

Capacitance	Tolerance	Thickness T	Part No.	Part No.		
(pF)	Tolerance	(mm)	Temperature characteristics: X5R	Temperature characteristics: X7F		
000 000	±10%	1.25±0.10	C2012X5R1E684K	C2012X7R1E684K		
680,000	±20%	1.25±0.10	C2012X5R1E684M	C2012X7R1E684M		
1,000,000	±10%	1.25±0.10	C2012X5R1E105K	C2012X7R1E105K		
	±20%	1.25±0.10	C2012X5R1E105M	C2012X7R1E105M		
1,500,000	±10%	1.25±0.20	C2012X5R1E155K	C2012X7R1E155K		
	±20%	1.25±0.20	C2012X5R1E155M	C2012X7R1E155M		

#### RATED VOLTAGE Edc: 16V

Capacitance	Tolerance	Thickness T	Part No.	TW WWW
(pF)	Tolerance	(mm)	Temperature characteristics: X5R	Temperature characteristics: X7F
1,000,000	±10%	0.85±0.10	C2012X5R1C105K	C2012X7R1C105K
1,000,000	±20%	0.85±0.10	C2012X5R1C105M	C2012X7R1C105M
1 500 000	±10%	1.25±0.10	C2012X5R1C155K	C2012X7R1C155K
1,500,000	±20%	1.25±0.10	C2012X5R1C155M	C2012X7R1C155M
2,200,000	±10%	1.25±0.20	C2012X5R1C225K	C2012X7R1C225K
2,200,000	±20%	1.25±0.20	C2012X5R1C225M	C2012X7R1C225M

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

Capacitance	Tolerance	Thickness T	Part No.	
(pF)	Tolerance	(mm)	Temperature characteristics: X5R	
4 700 000	±10%	0.85±0.10	C2012X5R0J475K	
4,700,000	±20%	0.85±0.10	C2012X5R0J475M	月
15,000,000	±20%	0.85+0.15,-0.10	C2012X5R0J156M	月
				月
				0
				4 O D

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#### TEMPERATURE CHARACTERISTICS: JF(+30, -80%), Y5V(+22, -82%)

#### RATED VOLTAGE Edc: 50V

Capacitance	Tolerance	Thickness T	Part No.	100 x ON:14	
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V	
1,000,000	+80,-20%	0.85±0.10	C2012JF1H105Z	C2012Y5V1H105Z	
2,200,000	+80,-20%	1.25±0.20	C2012JF1H225Z	C2012Y5V1H225Z	

#### RATED VOLTAGE Edc: 25V

Capacitance	Tolerance	Thickness T	Part No.	MAL TOOK TITM		
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V		
4,700,000	+80,-20%	1.25±0.20	C2012JF1E475Z	C2012Y5V1E475Z		

#### RATED VOLTAGE Edc: 16V

Capacitance	Talamanaa	Thickness T	Part No.	100 m 0M.
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V
10,000,000	+80,-20%	1.25±0.20	C2012JF1C106Z	C2012Y5V1C106Z

#### RATED VOLTAGE Edc: 6.3V

Capacitance	Tolerance	Thickness T	Part No.	
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V
22,000,000	+80,–20%	1.25±0.20	C2012JF0J226Z	C2012Y5V0J226Z
1007.	TI		11007.	100 1.

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<sup>•</sup> For more information about the products of other capacitance or data, please contact us.

### **公TDK**

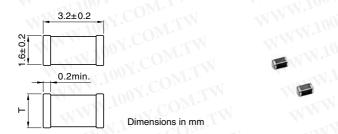
## C Series C3216 (EIA CC1206) Type

#### Conformity to RoHS Directive

#### **FEATURES**

- High capacitance has been achieved through precision technologies that enable the use of multiple thinner ceramic dielectric layers.
- A monolithic structure ensures superior mechanical strength and reliability.
- High-accuracy automatic mounting is facilitated through the maintenance of very precise dimensional tolerances.
- Composed of only ceramics and metals, these capacitors provide extremely dependable performance, exhibiting virtually no degradation even when subjected to temperature extremes.
- Low stray capacitance ensures high conformity with nominal values, thereby simplifying the circuit design process.
- Low residual inductance assures superior frequency characteristics.
- Because electrostatic capacity has been obtained up to the electrolytic capacitor range, these capacitors offer long service life and are optimally suited for power supply designs that require high levels of reliability.
- Owing to their low ESR and excellent frequency characteristics, these products are optimally suited for high frequency and highdensity type power supplies.

#### **SHAPES AND DIMENSIONS**



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#### PRODUCT IDENTIFICATION

С	3216	CH	1H	103	J	
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Series name

(2) Dimensions L×W					
3216	3.2×1.6mm	- 1			

#### (3) Capacitance temperature characteristics

#### Class 1 (Temperature compensation)

Temperature characteristics	Capacitance change	Temperature range
CH	0±60ppm/°C	−25 to +85°C
C0G	0±30ppm/°C	−55 to +125°C

#### Class 2 (Temperature stable and general purpose)

Temperature characteristics	Capacitance change	Temperature range
JB	±10%	−25 to +85°C
JF	+30, -80%	−25 to +85°C
X7R	±15%	-55 to +125°C
X5R	±15%	−55 to +85°C
Y5V	+22, -82%	−30 to +85°C

#### (4) Rated voltage Edc

0J	6.3V	W.Io
1A	10V	1007
1C	16V	MIN.
1E	25V	1100
1H	50V	TAN W.

#### (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.

	9	
010	1pF	44
100	10pF	W.V.
102	1,000pF	4.

#### (6) Capacitance tolerance

J 100	±5%	
K	±10%	
M	±20%	
Z	+80, -20%	

#### (7) Packaging style

T	Taping (reel)	
В	Bulk	



RATED VOLTAGE Edc: 50V

Capacitance (pF)	Talauahaa	Thickness T	Part No.	WT:
	Tolerance	(mm)	Temperature characteristics: CH	Temperature characteristics: C0G
4,700	±5%	0.60±0.10	C3216CH1H472J	C3216C0G1H472J
6,800	±5%	0.60±0.10	C3216CH1H682J	C3216C0G1H682J
10,000	±5%	0.85±0.10	C3216CH1H103J	C3216C0G1H103J
15,000	±5%	1.15±0.10	C3216CH1H153J	C3216C0G1H153J
22,000	±5%	1.15±0.10	C3216CH1H223J	C3216C0G1H223J
33.000	±5%	1.60±0.20	C3216CH1H333J	C3216C0G1H333J

#### **CAPACITANCE RANGES: CLASS 2**

CAPACITANCE RANGES: CLASS 2 TEMPERATURE CHARACTERISTICS: JB(±10%), X5R/X7R(±15%) RATED VOLTAGE Edc: 50V					
Capacitance	Toloropoo	Thickness T	Part No.	LIN Jan COM	
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R
470.000	±10%	1.6±0.15	C3216JB1H474K	C3216X5R1H474K	C3216X7R1H474K
470,000	±20%	1.6±0.15	C3216JB1H474M	C3216X5R1H474M	C3216X7R1H474M
200 000	±10%	1.6±0.15	C3216JB1H684K	C3216X5R1H684K	C3216X7R1H684K
680,000	±20%	1.6±0.15	C3216JB1H684M	C3216X5R1H684M	C3216X7R1H684M
1 000 000	±10%	1.6±0.15	C3216JB1H105K	C3216X5R1H105K	C3216X7R1H105K
1,000,000	±20%	1.6±0.15	C3216JB1H105M	C3216X5R1H105M	C3216X7R1H105M

#### RATED VOLTAGE Edc: 25V

Capacitance (pF)	Talaranaa Thickness T Part No.		TINN.10	COM		
	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R	
1 500 000	±10%	1.6±0.15	C3216JB1E155K	C3216X5R1E155K	C3216X7R1E155K	
	±20%	1.6±0.15	C3216JB1E155M	C3216X5R1E155M	C3216X7R1E155M	
	±10%	1.6±0.15	C3216JB1E225K	C3216X5R1E225K	C3216X7R1E225K	
2,200,000	±20%	1.6±0.15	C3216JB1E225M	C3216X5R1E225M	C3216X7R1E225M	
0.000.000	±10%	1.6±0.15	C3216JB1E335K	C3216X5R1E335K	C3216X7R1E335K	
3,300,000	±20%	1.6±0.15	C3216JB1E335M	C3216X5R1E335M	C3216X7R1E335M	
4 700 000	±10%	1.6±0.15	C3216JB1E475K	C3216X5R1E475K	C3216X7R1E475K	
4,700,000	±20%	1.6±0.15	C3216JB1E475M	C3216X5R1E475M	C3216X7R1E475M	

## RATED VOLTAGE Edc: 16V

Capacitance	Tolerance	Thickness T	Part No.	COL	N TO SOLICO
(pF)		(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R
0.000.000	±10%	1.15±0.15	C3216JB1C225K	C3216X5R1C225K	C3216X7R1C225K
2,200,000	±20%	1.15±0.15	C3216JB1C225M	C3216X5R1C225M	C3216X7R1C225M
2 222 222	±10%	0.85±0.15	C3216JB1C335K	C3216X5R1C335K	C3216X7R1C335K
3,300,000	±20%	0.85±0.15	C3216JB1C335M	C3216X5R1C335M	C3216X7R1C335M
4 700 000	±10%	1.15±0.15	C3216JB1C475K	C3216X5R1C475K	C3216X7R1C475K
4,700,000	±20%	1.15±0.15	C3216JB1C475M	C3216X5R1C475M	C3216X7R1C475M
0.000.000	±10%	1.6±0.15	C3216JB1C685K	C3216X5R1C685K	C3216X7R1C685K
6,800,000	±20%	1.6±0.15	C3216JB1C685M	C3216X5R1C685M	C3216X7R1C685M
10 000 000	±10%	1.6±0.15	C3216JB1C106K	C3216X5R1C106K	C3216X7R1C106K
10,000,000	±20%	1.6±0.15	C3216JB1C106M	C3216X5R1C106M	C3216X7R1C106M
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# TEMPERATURE CHARACTERISTICS: JB(±10%), X5R(±15%)

#### RATED VOLTAGE Edc: 50V

TEMPERATURE CHARACTERISTICS: JB(±10%), X5R(±15%)							
RATED VOL			W.T.W.				
Capacitance	Tolerance	Thickness T	Part No.	1003. W.I.			
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R			
470.000	±10%	0.85±0.10	C3216JB1H474K	C3216X5R1H474K			
470,000	±20%	0.85±0.10	C3216JB1H474M	C3216X5R1H474M			

#### RATED VOLTAGE Edc: 25V

Talamanaa	Thickness T	Part No.	1007. TW
Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R
±10%	0.85+0.15,-0.10	C3216JB1E105K	C3216X5R1E105K
±20%	0.85+0.15,-0.10	C3216JB1E105M	C3216X5R1E105M
±10%	0.85+0.15,-0.10	C3216JB1E155K	C3216X5R1E155K
±20%	0.85+0.15,-0.10	C3216JB1E155M	C3216X5R1E155M
±10%	0.85+0.15,-0.10	C3216JB1E335K	C3216X5R1E335K
±20%	0.85+0.15,-0.10	C3216JB1E335M	C3216X5R1E335M
	±20% ±10% ±20% ±10%	tolerance         (mm)           ±10%         0.85+0.15,-0.10           ±20%         0.85+0.15,-0.10           ±10%         0.85+0.15,-0.10           ±20%         0.85+0.15,-0.10           ±10%         0.85+0.15,-0.10	Tolerance (mm) Temperature characteristics: JB ±10% 0.85+0.15,-0.10 C3216JB1E105K ±20% 0.85+0.15,-0.10 C3216JB1E105M ±10% 0.85+0.15,-0.10 C3216JB1E155K ±20% 0.85+0.15,-0.10 C3216JB1E155M ±10% 0.85+0.15,-0.10 C3216JB1E335K

#### RATED VOLTAGE Edc: 16V

Capacitance	Tolerance	Thickness T	Part No.	
pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R
000,000	±10%	0.85±0.10	C3216JB1C105K	C3216X5R1C105K
000,000	±20%	0.85±0.10	C3216JB1C105M	C3216X5R1C105M
F00 000	±10%	0.85±0.10	C3216JB1C155K	C3216X5R1C155K
500,000	±20%	0.85±0.10	C3216JB1C155M	C3216X5R1C155M

#### RATED VOLTAGE Edc: 10V

Capacitance	Tolerance	Thickness T	Part No.	[W ] 10
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5F
0.000.000	±10%	0.85±0.10	C3216JB1A225K	C3216X5R1A225K
2,200,000	±20%	0.85±0.10	C3216JB1A225M	C3216X5R1A225M
0.000.000	±10%	0.85+0.15,-0.10	C3216JB1A335K	C3216X5R1A335K
3,300,000	±20%	0.85+0.15,-0.10	C3216JB1A335M	C3216X5R1A335M

#### RATED VOLTAGE Edc: 6.3V

Capacitance	Tolerance	Thickness T	Part No.	TW WW	-1100 Y.O
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	W. C
10,000,000	±10%	1.6±0.15	C3216JB0J106K	C3216X5R0J106K	1007.
10,000,000	±20%	1.6±0.15	C3216JB0J106M	C3216X5R0J106M	N
15,000,000	±20%	1.6±0.15	C3216JB0J156M	C3216X5R0J156M	- 1XV .100 ×
22,000,000	±20%	0.85±0.10	C3216JB0J226M	C3216X5R0J226M	1003
33,000,000	±20%	1.30±0.15	C3216JB0J336M	C3216X5R0J336M	- TANN. IOO
47,000,000	±20%	1.6±0.15	C3216JB0J476M	C3216X5R0J476M	100

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OM.TW



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

Capacitance	TAGE Edc: 1	Thickness T	Part No.	1007. M.TN
(pF)	Tolerance	(mm)	Temperature characteristics: X5R	Temperature characteristics: X7F
0.000.000	±10%	1.15±0.15	C3216X5R1C335K	C3216X7R1C335K
3,300,000	±20%	1.15±0.15	C3216X5R1C335M	C3216X7R1C335M
4.700.000	±10%	1.6±0.15	C3216X5R1C475K	C3216X7R1C475K
4,700,000	±20%	1.6±0.15	C3216X5R1C475M	C3216X7R1C475M
TEMPERAT	URE CHAR	ACTERISTICS:	X5R(±15%)	
RATED VOL	TAGE Edc: 6	6.3V		
Capacitance	Toloronoo	Thickness T	Part No.	MAN. ON COM
(pF) Tolerance		(mm)	Temperature characteristics: X5R	- 12N Jan 20Nr.

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

Capacitance	Tolerance	Thickness T	Part No.
(pF)	Tolerance	(mm)	Temperature characteristics: X5R
15,000,000	±20%	1.6±0.15	C3216X5R0J156M

#### TEMPERATURE CHARACTERISTICS: JF(+30, -80%), Y5V(+22, -82%)

(pF)	Tolerance	(mm)	Temperature characteristics: X5F	S. COM.
15,000,000	±20%	1.6±0.15	C3216X5R0J156M	MM, 1001.
<b>FEMPERAT</b>	URE CHAR	ACTERISTICS:	JF(+30, -80%), Y5V(+22, -82%	) W
			TW.Co.	WW TOOX.CO
RATED VOL	TAGE Edc: 5		Part No.	M.M.M. 100X.CO.
RATED VOL  Capacitance (pF)		50V	N 100Y.CO	Temperature characteristics: Y5V

#### RATED VOLTAGE Edc: 25V

#### RATED VOLTAGE Edc: 16V

10,000,000	+80,–20%	1.6±0.15	C3216JF1E106Z	C3216Y5V1E106Z
RATED VOL	TAGE Edc:	16V		
Capacitance	Tolerance	Thickness T	Part No.	TAN T
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V
22,000,000	+80,-20%	1.6±0.20	C3216JF1C226Z	C3216Y5V1C226Z
	OV.C	O. T. W.	MM 100Xico	TW WW
RATED VOL	TAGE Edc:	6.3V		
Capacitance	(Talamana)	Thickness T	Part No.	OM.
(nE)	Tolerance	(mm)	Tomporatura abarastariation IE	Tomporatura abarastariation VEV

#### RATED VOLTAGE Edc: 6.3V

(pF) (mm) Temperature characteristics: JF Temperature characterist	Capacitance	Talawanaa	Thickness T	Part No.	
47.000.000	(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics
47,000,000 +80,-20% 1.6±0.15 C3216JF0J4/6Z C3216Y5V0J4/6Z	47,000,000	+80,-20%	1.6±0.15	C3216JF0J476Z	C3216Y5V0J476Z

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<sup>•</sup> For more information about the products of other capacitance or data, please contact us.

### **公TDK**

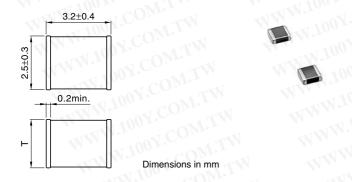
## C Series C3225(EIA CC1210) Type

#### **Conformity to RoHS Directive**

#### **FEATURES**

- High capacitance has been achieved through precision technologies that enable the use of multiple thinner ceramic dielectric layers.
- A monolithic structure ensures superior mechanical strength and reliability.
- High-accuracy automatic mounting is facilitated through the maintenance of very precise dimensional tolerances.
- Composed of only ceramics and metals, these capacitors provide extremely dependable performance, exhibiting virtually no degradation even when subjected to temperature extremes.
- Low stray capacitance ensures high conformity with nominal values, thereby simplifying the circuit design process.
- Low residual inductance assures superior frequency characteristics.
- Because electrostatic capacity has been obtained up to the electrolytic capacitor range, these capacitors offer long service life and are optimally suited for power supply designs that require high levels of reliability.
- Owing to their low ESR and excellent frequency characteristics, these products are optimally suited for high frequency and highdensity type power supplies.

#### **SHAPES AND DIMENSIONS**



#### PRODUCT IDENTIFICATION

C	3225	CH	1H	104	J	
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Series name

(2) Dimens	ions L×W	
3225	3.2×2.5mm	T

#### (3) Capacitance temperature characteristics

#### Class 1 (Temperature compensation)

Temperature characteristics	Capacitance change	Temperature range
CH	0±60ppm/°C	−25 to +85°C
COG	0±30ppm/°C	−55 to +125°C

#### Class 2 (Temperature stable and general purpose)

Temperature characteristics	Capacitance change	Temperature range
JB	±10%	−25 to +85°C
JF	+30, -80%	−25 to +85°C
X7R	±15% –55 to +12	
X5R	±15%	−55 to +85°C
Y5V	+22, -82%	−30 to +85°C

#### (4) Rated voltage Edc

OJ	6.3V	W.Io.
1A	10V	1007
1C	16V	NW.I
1E	25V	1100
1H	50V	W.

#### (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.

	9	
010	1pF	44
100	10pF	W
102	1,000pF	4.

#### (6) Capacitance tolerance

J 10	±5%	
K	±10%	
M	±20%	
Z	+80, -20%	

#### (7) Packaging style

T	Taping (reel)	
В	Bulk	



RATED VOLTAGE Edc: 50V

Capacitance (pF)	Talauanaa	Thickness T	Part No.		
	Tolerance	(mm)	Temperature characteristics: CH	Temperature characteristics: C0G	
22,000	±5%	1.25±0.20	C3225CH1H223J	C3225C0G1H223J	
33,000	±5%	1.6±0.20	C3225CH1H333J	C3225C0G1H333J	
47,000	±5%	2.0±0.20	C3225CH1H473J	C3225C0G1H473J	
68,000	±5%	2.0±0.20	C3225CH1H683J	C3225C0G1H683J	
100,000	±5%	2.5±0.30	C3225CH1H104J	C3225C0G1H104J	
TEMPERAT			JB(±10%), X5R/X7R(±15%)		

#### **CAPACITANCE RANGES: CLASS 2**

RATED VOL	RATED VOLTAGE Edc: 50V						
Capacitance	Tolerance	Thickness T	Part No.	MM OUT CO.	TW		
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7F		
470,000	±10%	1.15±0.10	C3225JB1H474K	C3225X5R1H474K	C3225X7R1H474K		
470,000	±20%	1.15±0.10	C3225JB1H474M	C3225X5R1H474M	C3225X7R1H474M		
1 000 000 —	±10%	1.6±0.15	C3225JB1H105K	C3225X5R1H105K	C3225X7R1H105K		
	±20%	1.6±0.15	C3225JB1H105M	C3225X5R1H105M	C3225X7R1H105M		
1 500 000	±10%	2.0±0.20	C3225JB1H155K	C3225X5R1H155K	C3225X7R1H155K		
1,500,000	±20%	2.0±0.20	C3225JB1H155M	C3225X5R1H155M	C3225X7R1H155M		
2 000 000	±10%	2.0±0.20	C3225JB1H225K	C3225X5R1H225K	C3225X7R1H225K		
2,200,000	±20%	2.0±0.20	C3225JB1H225M	C3225X5R1H225M	C3225X7R1H225M		
- XXL 1000 >	±10%	2.5±0.20	C3225JB1H335K	C3225X5R1H335K	C3225X7R1H335K		
3,300,000	±20%	2.5±0.20	C3225JB1H335M	C3225X5R1H335M	C3225X7R1H335M		

#### RATED VOLTAGE Edc: 25V

Capacitance	<u> </u>	Thickness T	Part No.	IN 111	10x 0N:I.
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R
1 500 000	±10%	1.15±0.10	C3225JB1E155K	C3225X5R1E155K	C3225X7R1E155K
1,500,000 $\frac{=10\%}{\pm 20\%}$	±20%	1.15±0.10	C3225JB1E155M	C3225X5R1E155M	C3225X7R1E155M
0.000.000	±10%	1.15±0.10	C3225JB1E225K	C3225X5R1E225K	C3225X7R1E225K
$2,200,000$ $\frac{\pm 10\%}{\pm 20\%}$	±20%	1.15±0.10	C3225JB1E225M	C3225X5R1E225M	C3225X7R1E225M
3 300 000	±10%	1.6±0.15	C3225JB1E335K	C3225X5R1E335K	C3225X7R1E335K
	±20%	1.6±0.15	C3225JB1E335M	C3225X5R1E335M	C3225X7R1E335M
4 700 000	±10%	2.0±0.20	C3225JB1E475K	C3225X5R1E475K	C3225X7R1E475K
4,700,000	±20%	2.0±0.20	C3225JB1E475M	C3225X5R1E475M	C3225X7R1E475M
c 000 000	±10%	2.0±0.20	C3225JB1E685K	C3225X5R1E685K	C3225X7R1E685K
6,800,000	±20%	2.0±0.20	C3225JB1E685M	C3225X5R1E685M	C3225X7R1E685M
10,000,000	±10%	2.5±0.20	C3225JB1E106K	C3225X5R1E106K	C3225X7R1E106K
10,000,000	±20%	2.5±0.20	C3225JB1E106M	C3225X5R1E106M	C3225X7R1E106M

#### RATED VOLTAGE Edc: 16V

Capacitance	Tolerance	Thickness T	Part No.		
(pF)	Tolerance	(mm)	Temperature characteristics:	JB Temperature characteristics: X5F	Temperature characteristics: X7R
15,000,000	±20%	2.5±0.20	C3225JB1C156M	C3225X5R1C156M	C3225X7R1C156M
22,000,000	±20%	2.5±0.20	C3225JB1C226M	C3225X5R1C226M	C3225X7R1C226M

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#### TEMPERATURE CHARACTERISTICS: JB(±10%), X5R(±15%)

RATED VOLTAGE Edc: 10V

Toloropoo	Thickness T	Part No.		
Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	
±20%	2.3±0.20	C3225JB1A156M	C3225X5R1A156M	
±20%	2.3±0.20	C3225JB1A226M	C3225X5R1A226M	
±20%	2.0±0.20	C3225JB1A336M	C3225X5R1A336M	
±20%	2.5±0.20	C3225JB1A476M	C3225X5R1A476M	
	±20% ±20%	Tolerance (mm) ±20% 2.3±0.20 ±20% 2.3±0.20 ±20% 2.0±0.20	Tolerance (mm) Temperature characteristics: JB ±20% 2.3±0.20 C3225JB1A156M ±20% 2.3±0.20 C3225JB1A226M ±20% 2.0±0.20 C3225JB1A336M	

#### RATED VOLTAGE Edc: 6.3V

Capacitance	T-1	Thickness T Part No.		100 F. W. I.A.
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R
68,000,000	±20%	2.0±0.20	C3225JB0J686M	C3225X5R0J686M
100,000,000	±20%	2.5±0.40	C3225JB0J107M	C3225X5R0J107M

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

±20 /6	2.5±0.40	C32233B03107W	C3223X311031071W
		X5R/X7R(±15%)	
Toloropoo	Thickness T	Part No.	M.M. CO
Tolerance	(mm)	Temperature characteristics: X5R	Temperature characteristics: X7R
±10%	2.0±0.20	C3225X5R1H225K	C3225X7R1H225K
±20%	2.0±0.20	C3225X5R1H225M	C3225X7R1H225M
±10%	2.5±0.30	C3225X5R1H335K	C3225X7R1H335K
±20%	2.5±0.30	C3225X5R1H335M	C3225X7R1H335M
	TAGE Edc:  Tolerance  ±10% ±20% ±10%	URE CHARACTERISTICS:           TAGE Edc: 50V           Tolerance         Thickness T (mm)           ±10%         2.0±0.20           ±20%         2.0±0.20           ±10%         2.5±0.30	URE CHARACTERISTICS: X5R/X7R(±15%)  TAGE Edc: 50V  Tolerance

#### RATED VOLTAGE Edc: 25V

Capacitance	Tolerance	Thickness T	Part No.	
(pF)	F)	(mm)	Temperature characteristics: X5R	Temperature characteristics: X7F
6,800,000	±10%	2.5±0.20	C3225X5R1E685K	C3225X7R1E685K
6,600,000	±20%	2.5±0.20	C3225X5R1E685M	C3225X7R1E685M
10,000,000	±10%	2.5±0.30	C3225X5R1E106K	C3225X7R1E106K
10,000,000	±20%	2.5±0.30	C3225X5R1E106M	C3225X7R1E106M

## RATED VOLTAGE Edc: 16V

Capacitance	Tolerance	Thickness T	Part No.	
(pF)	Tolerance	(mm)	Temperature characteristics: X5R	Temperature characteristics: X7F
10,000,000	±10%	2.0±0.20	C3225X5R1C106K	C3225X7R1C106K
10,000,000	±20%	2.0±0.20	C3225X5R1C106M	C3225X7R1C106M
15,000,000	±20%	2.5±0.30	C3225X5R1C156M	C3225X7R1C156M
22,000,000	±20%	2.5±0.30	C3225X5R1C226M	C3225X7R1C226M

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

Capacitance	Talawanaa	Thickness T	Part No.
(pF)	Tolerance	(mm)	Temperature characteristics: X5R
15,000,000	±20%	2.0±0.20	C3225X5R1A156M
22,000,000	±20%	2.3±0.30	C3225X5R1A226M

#### RATED VOLTAGE Edc: 6.3V

(pF) Tolerance (mm) Temperature	
	characteristics: X5R Http://v
22,000,000 ±20% 1.6±0.15 C3225X5R0	J226M
33,000,000 ±20% 2.0±0.20 C3225X5R0	J336M
47,000,000 ±20% 2.5±0.40 C3225X5R0	J476M

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#### TEMPERATURE CHARACTERISTICS: JF(+30, -80%), Y5V(+22, -82%)

#### RATED VOLTAGE Edc: 50V

Capacitance	Tolerance	Thickness T	Part No.	100 x OM:1 1
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V
4,700,000	+80,-20%	1.15±0.10	C3225JF1H475Z	C3225Y5V1H475Z
10,000,000	+80,-20%	1.6±0.15	C3225JF1H106Z	C3225Y5V1H106Z

#### RATED VOLTAGE Edc: 25V

Capacitance	Tolerance	Thickness T	Part No.	
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V
10,000,000	+80,-20%	1.3±0.20	C3225JF1E106Z	C3225Y5V1E106Z
22,000,000	+80.–20%	2.0±0.20	C3225JF1E226Z	C3225Y5V1E226Z

#### RATED VOLTAGE Edc: 16V

Capacitance	Tolerance	Thickness T	Part No.	
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V
22,000,000	+80,-20%	1.3±0.20	C3225JF1C226Z	C3225Y5V1C226Z
47,000,000	+80,-20%	2.3±0.20	C3225JF1C476Z	C3225Y5V1C476Z

#### RATED VOLTAGE Edc: 10V

Capacitance	Toloropoo	Thickness T	Part No.	
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V
22,000,000	+80,-20%	1.15±0.10	C3225JF1A226Z	C3225Y5V1A226Z
47,000,000	+80,-20%	2.0±0.20	C3225JF1A476Z	C3225Y5V1A476Z

#### RATED VOLTAGE Edc: 6.3V

Capacitance	07:	Thickness T	Part No.	
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5
100,000,000	+80,-20%	2.5±0.40	C3225JF0J107Z	C3225Y5V0J107Z

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<sup>•</sup> For more information about the products of other capacitance or data, please contact us.

### **ATDK**

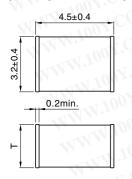
## C Series C4532(EIA CC1812) Type

#### **Conformity to RoHS Directive**

#### **FEATURES**

- High capacitance has been achieved through precision technologies that enable the use of multiple thinner ceramic dielectric layers.
- A monolithic structure ensures superior mechanical strength and reliability.
- High-accuracy automatic mounting is facilitated through the maintenance of very precise dimensional tolerances.
- Composed of only ceramics and metals, these capacitors provide extremely dependable performance, exhibiting virtually no degradation even when subjected to temperature extremes.
- Low stray capacitance ensures high conformity with nominal values, thereby simplifying the circuit design process.
- Low residual inductance assures superior frequency characteristics.
- Because electrostatic capacity has been obtained up to the electrolytic capacitor range, these capacitors offer long service life and are optimally suited for power supply designs that require high levels of reliability.
- Owing to their low ESR and excellent frequency characteristics, these products are optimally suited for high frequency and highdensity type power supplies.

#### SHAPES AND DIMENSIONS







Dimensions in mm

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#### PRODUCT IDENTIFICATION

 $\frac{\text{C}}{(1)} \frac{4532}{(2)} \frac{\text{CH}}{(3)} \frac{1\text{H}}{(4)} \frac{104}{(5)} \frac{\text{J}}{(6)} \frac{\Box}{(7)}$ 

(1) Series name

(2) Dimensions L×W 4532 4.5×3.2mm

### (3) Capacitance temperature characteristics

#### Class 1 (Temperature compensation)

Temperature characteristics	Capacitance change	Temperature range
CH	0±60ppm/°C	−25 to +85°C
C0G	0±30ppm/°C	−55 to +125°C

#### Class 2 (Temperature stable and general purpose)

Temperature characteristics	Capacitance change	Temperature range
JB	±10%	−25 to +85°C
JF	+30, -80%	−25 to +85°C
X7R	±15%	-55 to +125°C
X5R	±15%	−55 to +85°C
Y5V	+22, -82%	−30 to +85°C

#### (4) Rated voltage Edc

1A	10V	
1C	16V	1007
1E)	25V	WW.I
1H	50V	1100

#### (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.

010	1pF	Wire
100	10pF	14
102	1,000pF	411

#### (6) Capacitance tolerance

J	±5%	
K	±10%	
М	±20%	
Z	+80, -20%	

#### (7) Packaging style

T	Taping (reel)	
В	Bulk	



RATED VOLTAGE Edc: 50V

Capacitance	Talauahaa	Thickness T	Part No.		
(pF)	Tolerance	(mm)	Temperature characteristics: CH	Temperature characteristics: C0G	
47,000	±5%	1.6±0.15	C4532CH1H473J	C4532C0G1H473J	
68,000	±5%	1.6±0.15	C4532CH1H683J	C4532C0G1H683J	
100,000	±5%	2.0±0.2	C4532CH1H104J	C4532C0G1H104J	
150,000	±5%	2.5±0.3	C4532CH1H154J	C4532C0G1H154J	
220,000	±5%	3.2±0.3	C4532CH1H224J	C4532C0G1H224J	
TEMPERAT			JB(±10%), X5R/X7R(±15%)		

#### **CAPACITANCE RANGES: CLASS 2**

#### TEMPERATURE CHARACTERISTICS: JB(±10%), X5R/X7R(±15%)

Canacitanaa		50V	Part No.	COM.	-01
Capacitance (pF)	Tolerance	Thickness T (mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R
1 500 000	±10%	1.6±0.15	C4532JB1H155K	C4532X5R1H155K	C4532X7R1H155K
	±20%	1.6±0.15	C4532JB1H155M	C4532X5R1H155M	C4532X7R1H155M
2 222 222	±10%	1.6±0.15	C4532JB1H225K	C4532X5R1H225K	C4532X7R1H225K
2,200,000	±20%	1.6±0.15	C4532JB1H225M	C4532X5R1H225M	C4532X7R1H225M
2 200 000	±10%	2.0±0.20	C4532JB1H335K	C4532X5R1H335K	C4532X7R1H335K
3,300,000	±20%	2.0±0.20	C4532JB1H335M	C4532X5R1H335M	C4532X7R1H335M
4 700 000	±10%	2.3±0.20	C4532JB1H475K	C4532X5R1H475K	C4532X7R1H475K
4,700,000	±20%	2.3±0.20	C4532JB1H475M	C4532X5R1H475M	C4532X7R1H475M
-531 100 3	±10%	2.5±0.30	C4532JB1H685K	C4532X5R1H685K	C4532X7R1H685K
6,800,000	±20%	2.5±0.30	C4532JB1H685M	C4532X5R1H685M	C4532X7R1H685M

#### RATED VOLTAGE Edc: 25V

100	±20%	2.5±0.30	C4532JB1H685M	C4532X5R1H685M	C4532X7R1H685M
RATED VOL	TAGE Edc:	25V			
Capacitance	Tolerance	Thickness T	Part No.	1111	10 x
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R
10,000,000	±10%	2.5±0.30	C4532JB1E106K	C4532X5R1E106K	C4532X7R1E106K
10,000,000	±20%	2.5±0.30	C4532JB1E106M	C4532X5R1E106M	C4532X7R1E106M
15,000,000	±20%	2.5±0.30	C4532JB1E156M	C4532X5R1E156M	C4532X7R1E156M
22,000,000	±20%	2.5±0.30	C4532JB1E226M	C4532X5R1E226M	C4532X7R1E226M

#### RATED VOLTAGE Edc: 16V

Capacitance	Talamada	Thickness T	Part No.	11.1.11	
(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R
22,000,000	±20%	2.0±0.20	C4532JB1C226M	C4532X5R1C226M	C4532X7R1C226M
33,000,000	±20%	2.5±0.30	C4532JB1C336M	C4532X5R1C336M	C4532X7R1C336M
RATED VOL			X5R/X7R(±15%)	OOY.COM.ITW	WWW.100X.COM.TV
Capacitance	Tolerance	Thickness T	Part No.	CO CONTRACTOR	- WWW. COV.CO.
(pF)		(mm)	Temperature characteristics: X5R	Temperature characteristics: X7R	

#### **TEMPERATURE CHARACTERISTICS: X5R/X7R(±15%)**

Capacitance (pF)	Talamana	Thickness T	Part No.	ST CONT
	Tolerance	(mm)	Temperature characteristics: X5R	Temperature characteristics: X7R
4,700,000	±10%	2.0±0.20	C4532X5R1H475K	C4532X7R1H475K
	±20%	2.0±0.20	C4532X5R1H475M	C4532X7R1H475M
6,800,000	±10%	2.5±0.30	C4532X5R1H685K	C4532X7R1H685K
	±20%	2.5±0.30	C4532X5R1H685M	C4532X7R1H685M

## RATED VOLTAGE Edc: 25V

Capacitance (pF)	Tolerance	olerance -	Part No.		
			Temperature characteristics: X5R	Temperature characteristics: X7R	
15,000,000	±20%	2.8±0.30	C4532X5R1E156M	C4532X7R1E156M	
22,000,000	±20%	2.5±0.30	C4532X5R1E226M	C4532X7R1E226M	

#### RATED VOLTAGE Edc: 16V

Capacitance	Talamanaa	Thickness T	Part No.		COM
(pF)	Tolerance	(mm)	Temperature characteristics: X5R	Temperature charact	eristics: X7R
15,000,000	±20%	2.0±0.20	C4532X5R1C156M	C4532X7R1C156M	COM
				MMM.	勝 特 力 胜特力电

WWW.100Y.COM.TW

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www. 100y. com. tw

All specifications are subject to change without notice.



#### TEMPERATURE CHARACTERISTICS: JF(+30, -80%), Y5V(+22, -82%)

#### RATED VOLTAGE Edc: 50V

Capacitance Tolerance		Thickness T	Part No.		
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V	
10,000,000	+80,-20%	2.0±0.20	C4532JF1H106Z	C4532Y5V1H106Z	

#### RATED VOLTAGE Edc: 25V

00 $x$ .	Capacitance (pF)	Tolerance	Thickness T (mm)	Part No.		
				Temperature characteristics: JF	Temperature characteristics: Y5V	
700 -	22,000,000	+80,-20%	2.0±0.20	C4532JF1E226Z	C4532Y5V1E226Z	
400	Y.Co	N	MM	Or. Carry	M.1. 21 1003.	
N.Tuo	RATED VOL	TAGE Edc:	16V			

# RATED VOLTAGE Edc: 16V

Capacitance	Talawanaa	Thickness T	Part No.	TAN M.
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V
47,000,000	+80,-20%	2.5±0.30	C4532JF1C476Z	C4532Y5V1C476Z
RATED VOL	TAGE Edc:	10V		

## WW.10 RATED VOLTAGE Edc: 10V

Capacitance -	Tolerance	Thickness T	Part No.	
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characteristics: Y5V
100,000,000 -	+80,–20%	2.5±0.30	C4532JF1A107Z	C4532Y5V1A107Z

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<sup>•</sup> For more information about the products of other capacitance or data, please contact us.



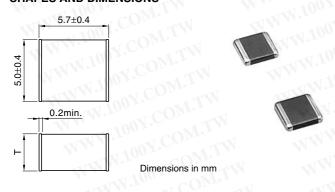
## C Series C5750(EIA CC2220) Type

#### Conformity to RoHS Directive

#### **FEATURES**

- High capacitance has been achieved through precision technologies that enable the use of multiple thinner ceramic dielectric layers.
- A monolithic structure ensures superior mechanical strength and reliability.
- High-accuracy automatic mounting is facilitated through the maintenance of very precise dimensional tolerances.
- Composed of only ceramics and metals, these capacitors provide extremely dependable performance, exhibiting virtually no degradation even when subjected to temperature extremes.
- Low stray capacitance ensures high conformity with nominal values, thereby simplifying the circuit design process.
- Low residual inductance assures superior frequency characteristics.
- Because electrostatic capacity has been obtained up to the electrolytic capacitor range, these capacitors offer long service life and are optimally suited for power supply designs that require high levels of reliability.
- Owing to their low ESR and excellent frequency characteristics, these products are optimally suited for high frequency and highdensity type power supplies.

#### **SHAPES AND DIMENSIONS**



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#### PRODUCT IDENTIFICATION

 $\frac{\text{C}}{(1)} \frac{5750}{(2)} \frac{\text{JB}}{(3)} \frac{1\text{E}}{(4)} \frac{106}{(5)} \frac{\text{K}}{(6)} \frac{\Box}{(7)}$ 

(1) Series name

(2) Dimensions L×W 5750 5.7×5.0mm

## (3) Capacitance temperature characteristics

Class 2 (Temperature stable and general purpose)

		' '
Temperature characteristics	Capacitance change	Temperature range
JB	±10%	−25 to +85°C
JF	+30, -80%	−25 to +85°C
X7R	±15%	−55 to +125°C
X5R	±15%	−55 to +85°C
Y5V	+22, -82%	−30 to +85°C

#### (4) Rated voltage Edc

10V	· ov CO
16V	$100$ $^{\circ}$
25V	- OUT CO
50V	1.100
	16V 25V

#### (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.

	9	
010	1pF	MAN TO
100	10pF	1.111.1
102	1,000pF	M. A.

#### (6) Capacitance tolerance

(0) 00,000,000				
K	±10%	111		
M	±20%	Wite		
Z	+80, -20%	44		

#### (7) Packaging style

T_s110	Taping (reel)	74
В	Bulk	1



# TEMPERATURE CHARACTERISTICS: JB(±10%), X5R/X7R(±15%) RATED VOLTAGE Edc: 25V

(pF)         Tolerance (mm)         Temperature characteristics: JB         Temperature characteristics: X5R         Temperature characteristics: X7R           10,000,000         ±10%         2.0±0.20         C5750JB1E106K         C5750X5R1E106K         C5750X7R1E106K           ±20%         2.0±0.20         C5750JB1E106M         C5750X5R1E106M         C5750X7R1E106M           TEMPERATURE CHARACTERISTICS: X5R/X7R(±15%)           RATED VOLTAGE Edc: 50V	Capacitance	Tolerance	Thickness T	Part No.				
10,000,000 ±20% 2.0±0.20 C5750JB1E106M C5750X5R1E106M C5750X7R1E106M  TEMPERATURE CHARACTERISTICS: X5R/X7R(±15%)	(pF)	Tolerance	(mm)	Temperature characteristics: JB	Temperature characteristics: X5R	Temperature characteristics: X7R		
±20% 2.0±0.20 C5750JB1E106M C5750X5R1E106M C5750X7R1E106M  TEMPERATURE CHARACTERISTICS: X5R/X7R(±15%)	10,000,000	±10%	2.0±0.20	C5750JB1E106K	C5750X5R1E106K	C5750X7R1E106K		
	10,000,000	±20%	2.0±0.20	C5750JB1E106M	C5750X5R1E106M	C5750X7R1E106M		
				X5R/X7R(±15%)				

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

Capacitance	Tolerance	Thickness T	Part No.		
(pF)	Tolerance	(mm)	Temperature characteristics: X5R	Temperature characteristics: X7R	
10,000,000	±10%	2.3±0.20	C5750X5R1H106K	C5750X7R1H106K	
	±20%	2.3±0.20	C5750X5R1H106M	C5750X7R1H106M	

#### RATED VOLTAGE Edc: 16V

Capacitance	Tolerance	Thickness T	Part No.		
(pF)	Tolerance	(mm)	Temperature characteristics: X5R	Temperature characteristics: X7F	
33,000,000	±20%	2.0±0.20	C5750X5R1C336M	C5750X7R1C336M	
47,000,000	±20%	2.3±0.20	C5750X5R1C476M	C5750X7R1C476M	
RATED VOL		ACTERISTICS: X	(5R(±15%)		
Capacitance	TGO	Thickness T	Part No.	N WWW.	
(pF)	Tolerance	ce (mm)	Temperature characteristics: X5R	- VI 100	

# TEMPERATURE CHARACTERISTICS: X5R(±15%) RATED VOLTAGE Edo: 101/

Capacitance Tolerance		Thickness T	Part No.	
(pF)	Tolerance	(mm)	Temperature characteristics: X5R	
68,000,000	±20%	2.3±0.20	C5750X5R1A686M	

#### **TEMPERATURE CHARACTERISTICS: JF(+30, -80%), Y5V(+22, -82%)**

(pF)	Tolerance	(mm)	Temperature characteristics: X5F		
68,000,000	±20%	2.3±0.20	C5750X5R1A686M	WY WY	
TEMPERAT RATED VOL			JF(+30, –80%), Y5V(+22, –82%	TW W	
Canacitance		Thickness T	Part No.		
(pF)	Tolerance	(mm)	Temperature characteristics: JF	Temperature characte	eristics: Y5V
			C5750JF1H226Z	C5750Y5V1H226Z	

#### RATED VOLTAGE Edc: 25V

Part No.		
ture characteristics: JF Temperature characterist		
-1E476Z C5750Y5V1E476Z		

#### RATED VOLTAGE Edc: 16V

Capacitance	W.	16V Thickness T	Part No.			
(pF)	Tolerance	(mm)	Temperature characteristics:	JF Temperature characteristics: Y	5V	
100,000,000	+80,-20%	2.5±0.30	C5750JF1C107Z	C5750Y5V1C107Z	— W 100 F	
				mlr .1.4 .11.1 .1.1	222 2 22222	$V_{CO}$
					886-3-5753170	<7 C
				胜特力电子(上海)	86-21-34970699	) I. C
				nd die tode →	00 755 00000000	- <7 (

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<sup>•</sup> For more information about the products of other capacitance or data, please contact us.