

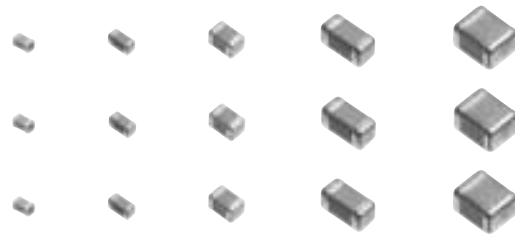


**THE DATASHEET OF  
ECJ-4YB1C476M**



### Multilayer Ceramic Chip Capacitors (High Capacitance)

Series: **ECJ**



#### ■ Features

- Small in size and large capacitance
- Low ESR/ESL and excellent High-frequency characteristics
- Optimal change from TANTALUM CHIP CAPACITORS and ALUMINUM ELECTROLYTIC CAPACITORS

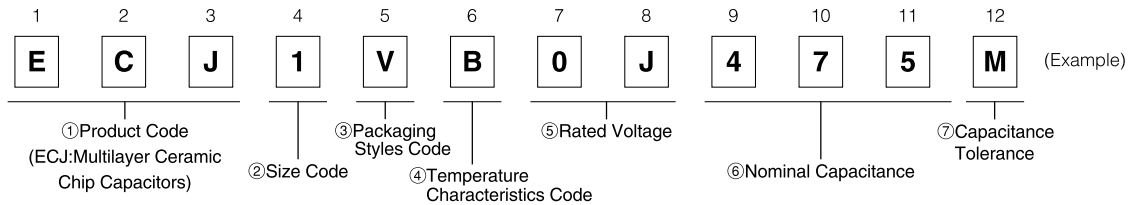
#### ■ Recommended Applications

- Class 2 (Hi-K Type)
  - Power supply circuit decoupling applications
  - Power supply circuit of the High-speed LSI
  - Smoothing circuit of DC-DC converters

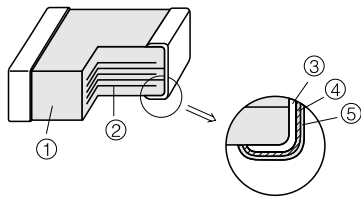
■ Handling Precautions, [click here.](#)

■ Packaging Specifications, [click here.](#)

#### ■ Explanation of Part Numbers

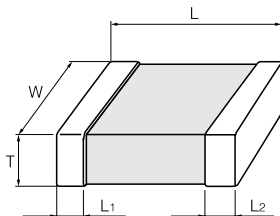


#### ■ Construction



No	Name	
①	Ceramic dielectric	
②	Internal electrode	
③	Terminal electrode	Substrate electrode
④		Intermediate electrode
⑤		External electrode

#### ■ Dimensions in mm (not to scale)



Unit : mm

Code	Size Code (EIA)	L	W	T	L1, L2
0	Type "10" (0402)	1.00±0.05	0.50±0.05	0.50±0.05	0.2±0.1
1	Type "11" (0603)	1.6±0.1	0.8±0.1	0.8±0.1	0.3±0.2
2	Type "12" (0805)	2.0±0.1	1.25±0.10	0.85±0.10	0.50±0.25
C		2.00±0.15	1.25±0.15	1.25±0.15	
G		2.0±0.2	1.25±0.20	1.25±0.20	
		2.0±0.2	1.25±0.20	0.85±0.10	
3	Type "13" (1206)	3.20±0.15	1.60±0.15	0.85±0.10	0.6±0.3
D		3.2±0.2	1.6±0.2	1.6±0.2	
M		3.2±0.2	1.6±0.2	0.85±0.10	
4	Type "23" (1210)	3.2±0.3	2.5±0.2	2.0±0.2	0.6±0.3
9			2.5±0.3	2.5±0.3	
		3.2±0.3	2.5±0.2	0.85±0.10	0.6±0.3

### ■ Packaging Styles and Standard Packaging Quantity

T : Thickness (mm)

Code	Packaging Styles		Quantity	Type"10"	Type"11"	Type"12"		Type"13"			Type"23"		
				(0402)	(0603)	(0805)	(1206)	T=0.85		T=1.6		T=0.85	
E	φ180 reel	Paper taping (Pitch:2mm)	pcs./ reel	10,000	—	—	—	—	—	—	—	—	—
V		Paper taping (Pitch:4mm)		—	4,000	4,000	—	4,000	—	—	—	—	—
F		Embossed taping (Pitch:4mm)		—	—	—	3,000	—	3,000	—	3,000	—	—
Y				—	—	—	—	—	—	2,000	—	2,000	1,000

### ■ Temperature Characteristics

#### ● Class 2 Capacitors

Code	Temp. Char.	Capacitance Change	Measurement Temperature Range	Reference Temperature
B	B	±10 %	-25 to 85 °C	20 °C
	X7R	±15 %	-55 to 125 °C	25 °C
5	X5R	±15 %	-55 to 85 °C	25 °C
F	F	+30, -80 %	-25 to 85 °C	20 °C
	Y5V	+22, -82 %	-30 to 85 °C	25 °C

For applicable "Temperature Characteristics", see the lists of standard products on page 8 to 9.

### ■ Rated Voltage

Code	1H	1E	1C	1A	0J	0G
Rated Voltage	DC 50 V	DC 25 V	DC 16 V	DC 10 V	DC 6.3 V	DC 4 V

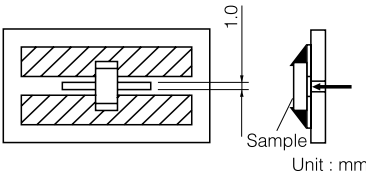
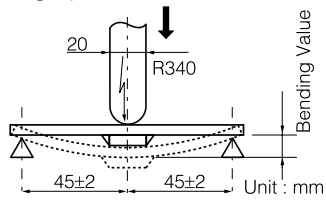
### ■ Nominal Capacitance

Ex.	105	225	106	226	107
Nominal Capacitance	1,000,000 pF (1 μF)	2,200,000 pF (2.2 μF)	10,000,000 pF (10 μF)	22,000,000 pF (22 μF)	100,000,000 pF (100 μF)

### ■ Capacitance Tolerance

Class	Temp. Char.	Tol. Code	Capacitance Tolerance
2	B, X7R, X5R	K	±10 %
		M	±20 %
	F, Y5V	Z	+80, -20 %

### ■ Specification and Test Method

Item	Specification	Test Method																														
Operating Temperature Range	Temp. Char. B, X7R : -55 to 125 °C Temp. Char. B, X5R : -55 to 85 °C Temp. Char. F, Y5V : -30 to 85 °C	—————																														
Dielectric Withstanding Voltage	No break down	Test voltage: Rated voltage ×250% Duration: 1 to 5s. Charge/discharge current: within 50 mA																														
Insulation Resistance (I R)	500/C (MΩ) min. Note: DC10V, DC6.3V; 100/C (MΩ) min. (C: Nominal Cap. in μF)	Measuring voltage: Rated voltage Duration: 60±5s Charge/discharge current: within 50 mA																														
Capacitance	within the specified tolerance	Measuring temperature: 20±2°C Pretreatment: The capacitors shall be kept in a temperature of 150+0/-10°C for 1 hour and then shall be stored in standard condition* 48±4 hours, before initial measurement.																														
Dissipation Factor (tan δ)	0.2 max. Please confirmation to the technical reports for details.	<table border="1"> <tr> <td>Nominal capacitance</td> <td>C ≤ 10μF</td> <td>C &gt; 10μF</td> </tr> <tr> <td>Measuring frequency</td> <td>1kHz ± 10%</td> <td>120Hz ± 20%</td> </tr> <tr> <td>Measuring voltage</td> <td>1.0 ± 0.2Vrms</td> <td>0.5 ± 0.2Vrms</td> </tr> </table>	Nominal capacitance	C ≤ 10μF	C > 10μF	Measuring frequency	1kHz ± 10%	120Hz ± 20%	Measuring voltage	1.0 ± 0.2Vrms	0.5 ± 0.2Vrms																					
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Temperature Characteristics	Temp. Char. B : ±10 % (-25 to 85 °C) X7R: ±15 % (-55 to 125 °C) X5R: ±15 % (-55 to 85 °C) F : +30, -80 % (-25 to 85 °C) Y5V: +22, -82 % (-30 to 85 °C)	<p>Maximum capacitance change at stage 1 to 5</p> <table border="1"> <thead> <tr> <th>Temp. Char.</th> <th>B, F</th> <th>X7R</th> <th>X5R</th> <th>Y5V</th> </tr> </thead> <tbody> <tr> <td>Stage 1</td> <td>20°C</td> <td>25°C</td> <td>25°C</td> <td>25°C</td> </tr> <tr> <td>Stage 2</td> <td>-25°C</td> <td>-55°C</td> <td>-55°C</td> <td>-30°C</td> </tr> <tr> <td>Stage 3 (Ref. Temp.)</td> <td>20°C</td> <td>25°C</td> <td>25°C</td> <td>25°C</td> </tr> <tr> <td>Stage 4</td> <td>85°C</td> <td>125°C</td> <td>85°C</td> <td>85°C</td> </tr> <tr> <td>Stage 5</td> <td>20°C</td> <td>25°C</td> <td>25°C</td> <td>25°C</td> </tr> </tbody> </table> <p>*ECJ0EBOJ105□(0402/X5R/6.3V/1.0μF), *ECJ1VB0J475□(0603/X5R/6.3V/4.7μF), *ECJ1VB0G106M(0603/X5R/4V/10μF) of 0.50±0.05 Vrms measurement voltage.</p>	Temp. Char.	B, F	X7R	X5R	Y5V	Stage 1	20°C	25°C	25°C	25°C	Stage 2	-25°C	-55°C	-55°C	-30°C	Stage 3 (Ref. Temp.)	20°C	25°C	25°C	25°C	Stage 4	85°C	125°C	85°C	85°C	Stage 5	20°C	25°C	25°C	25°C
Temp. Char.	B, F	X7R	X5R	Y5V																												
Stage 1	20°C	25°C	25°C	25°C																												
Stage 2	-25°C	-55°C	-55°C	-30°C																												
Stage 3 (Ref. Temp.)	20°C	25°C	25°C	25°C																												
Stage 4	85°C	125°C	85°C	85°C																												
Stage 5	20°C	25°C	25°C	25°C																												
Adhesion	The terminal electrode shall be free from peeling or signs of peeling.	<p>Applied force: 5N Duration: 10s</p> 																														
Bending Strength	Appearance: no mechanical damage Capacitance change: Temp. Char. B, X7R, X5R: within ±12.5 % F, Y5V: within ±30 %	<p>Bending value: 1 mm Bending speed: 1 mm/s</p> 																														
Vibration Proof	Appearance: There shall be no cracks and other mechanical damage. Capacitance: Shall be within the specified tolerance tanδ: initial value	Apply a variable vibration of 1.5mm total amplitude in the 10 to 55 to 10Hz vibration frequency range swept in 1 min. in 3 mutually perpendicular directions for 2 hours each, a total of 6 hours.																														
Solderability	More than 95 % of the soldered area of both terminal electrodes shall be covered with fresh solder.	Solder bath method Solder temperature: 230±5 °C Dipping period: 4±1 s Solder: H63A (JIS-Z-3282)																														

\*Standard condition : Temperature 15 to 35 °C, Relative humidity 45 to 75 %

October 2005

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

Item	Specification	Test Method									
Resistance to Solder Heat	Appearance: no mechanical damage Capacitance change: Temp. Char. B, X7R, X5R: within $\pm 7.5\%$ F, Y5V: within $\pm 20\%$ $\tan\delta$ initial value IR: initial value With-stand voltage: no dielectric breakdown or damage	Solder bath method Preconditioning: Heat treatment (150°C, 1h) Solder temperature: 270 $\pm$ 5 °C Dipping period: 3.0 $\pm$ 0.5 s Preheat condition: <table border="1"> <thead> <tr> <th>Temp.</th> <th>Type "10", "11", "12"</th> <th>Type "13", "23"</th> </tr> </thead> <tbody> <tr> <td>80 to 100 °C</td> <td>120 to 180s</td> <td>300 to 360s</td> </tr> <tr> <td>150 to 200 °C</td> <td>120 to 180s</td> <td>300 to 360s</td> </tr> </tbody> </table> Recovery(Standard condition): 48 $\pm$ 4h	Temp.	Type "10", "11", "12"	Type "13", "23"	80 to 100 °C	120 to 180s	300 to 360s	150 to 200 °C	120 to 180s	300 to 360s
Temp.	Type "10", "11", "12"	Type "13", "23"									
80 to 100 °C	120 to 180s	300 to 360s									
150 to 200 °C	120 to 180s	300 to 360s									
Temperature Cycle	Appearance: no mechanical damage Capacitance change: Temp. Char. B, X7R, X5R: within $\pm 7.5\%$ F, Y5V: within $\pm 20\%$ $\tan\delta$ initial value IR: initial value With-stand voltage: no dielectric breakdown or damage	Preconditioning: Heat treatment (150°C, 1h) Step 1: Minimum operation temp. 30 $\pm$ 3 min. Step 2: Room temp. 3 min. Step 3: Maximum operation temp. 30 $\pm$ 3 min. Step 4: Room temp. 3 min. Number of cycles: 5 cycles Recovery(Standard condition): 48 $\pm$ 4h									
Damp Heat (steady state)	Appearance: no mechanical damage Capacitance change: Temp. Char. B, X7R, X5R: within $\pm 12.5\%$ F, Y5V: within $\pm 30\%$ Note: ECJ0EB0J105□(0402/X5R/6.3V/1.0 $\mu$ F) ECJ1VB0J475□(0603/X5R/6.3V/4.7 $\mu$ F) ECJ1VB0G106M(0603/X5R/4V/10 $\mu$ F) within $\pm 20\%$ $\tan\delta$ 0.3 max. Please confirmation to the technical reports for details. IR: 50/C (M $\Omega$ ) min. Note: DC10V, DC6.3V; 10/C (M $\Omega$ ) min. (C: Nominal cap. in $\mu$ F)	Preconditioning: Heat treatment (150°C, 1h) Temperature: 40 $\pm$ 2 °C Relative humidity: 90 to 95 % Test period: 500+24/0 h Recovery(Standard condition): 48 $\pm$ 4h									
Loading Under Damp Heat	Appearance: no mechanical damage Capacitance change: Temp. Char. B, X7R, X5R: within $\pm 12.5\%$ F, Y5V: within $\pm 30\%$ Note: ECJ0EB0J105□(0402/X5R/6.3V/1.0 $\mu$ F) ECJ1VB0J475□(0603/X5R/6.3V/4.7 $\mu$ F) ECJ1VB0G106M(0603/X5R/4V/10 $\mu$ F) within $\pm 20\%$ $\tan\delta$ 0.3 max. Please confirmation to the technical reports for details. IR: 25/C (M $\Omega$ ) min. Note: DC10V, DC6.3V; 5/C (M $\Omega$ ) min. (C: Nominal cap. in $\mu$ F)	Preconditioning: Voltage treatment Temperature: 40 $\pm$ 2 °C Relative humidity: 90 to 95 % Applied voltage: Rated voltage Test period: 500+24/0 h Recovery(Standard condition): 48 $\pm$ 4h									
Loading at High Temperature	Appearance: no mechanical damage Capacitance change: Temp. Char. B, X7R, X5R: within $\pm 12.5\%$ F, Y5V: within $\pm 30\%$ Note: ECJ0EB0J105□(0402/X5R/6.3V/1.0 $\mu$ F) ECJ1VB0J475□(0603/X5R/6.3V/4.7 $\mu$ F) ECJ1VB0G106M(0603/X5R/4V/10 $\mu$ F) within $\pm 20\%$ $\tan\delta$ 0.3 max. Please confirmation to the technical reports for details. IR: 50/C (M $\Omega$ ) min. Note: DC10V, DC6.3V; 10/C (M $\Omega$ ) min. (C: Nominal cap. in $\mu$ F)	Preconditioning: Voltage treatment Temperature: Maximum operation temp. $\pm 3$ °C Applied voltage: ① Rated voltage $\times$ 200% ② Rated voltage $\times$ 150% ③ Rated voltage $\times$ 100% Please confirmation to the technical reports for details. Charge/discharge current: within 50mA Test period: 1000+48/0 h Recovery(Standard condition): 48 $\pm$ 4h									

Note 1) Heat treatment: 1 h of heat treatment at 150 $\pm$ 0/-10°C followed by 48 $\pm$ 4 h recovery under the standead condition.

Note 2) Voltage treatment: 1 h of voltage treatment under the specified temperature and voltage for testing followed by 48  $\pm$  4 h of recovery under the standead condition.

### Standard Products for Type "10" (EIA "0402"), Taped Version

Code		B		
Capacitance (μF)	Rated Voltage	DC6.3V		
	Capacitance Tolerance	Part No.	Dim. T (mm)	Temp. Char. X5R
1	±10%(K) or ±20%(M)	ECJ0EB0J105□	0.5	○

Code		F		
Capacitance (μF)	Rated Voltage	DC6.3V		
	Capacitance Tolerance	Part No.	Dim. T (mm)	Temp. Char. F Y5V
1	+80,-20%(Z)	ECJ0EF0J105Z	0.5	○ ○

Packaging style code: "E" for taped version (φ180 reel, taping pitch: 2 mm).

### Standard Products for Type "11" (EIA "0603"), Taped Version

Code		B											
Capacitance (μF)	Rated Voltage	DC16V			DC10V			DC6.3V			DC4V		
		Part No.	Dim. T (mm)	Temp. Char. X5R	Part No.	Dim. T (mm)	Temp. Char. X5R	Part No.	Dim. T (mm)	Temp. Char. X5R	Part No.	Dim. T (mm)	Temp. Char. X5R
1	±10%(K) or ±20%(M)	ECJ1VB1C105□	0.8	○	ECJ1VB1A105□	0.8	○	ECJ1VB0J105□	0.8	○			
2.2					ECJ1VB1A225□	0.8	○	ECJ1VB0J225□	0.8	○			
4.7								ECJ1VB0J475□	0.8	○			
10											ECJ1VB0G106M	0.8	○

Code		F												
Capacitance (μF)	Rated Voltage	DC25V			DC16V			DC10V			DC6.3V			
		Part No.	Dim. T (mm)	Temp. Char. F Y5V	Part No.	Dim. T (mm)	Temp. Char. F Y5V	Part No.	Dim. T (mm)	Temp. Char. F Y5V	Part No.	Dim. T (mm)	Temp. Char. F Y5V	
1	+80,	ECJ1VF1E105Z	0.8	○	ECJ1VF1C105Z	0.8	○	ECJ1VF1A105Z	0.8	○	○			
2.2	-20%(Z)							ECJ1VF1A225Z	0.8	○	○	ECJ1VF0J225Z	0.8	○

Code		F		
Capacitance (μF)	Rated Voltage	DC25V		
	Capacitance Tolerance	Part No.	Dim. T (mm)	Temp. Char. X5S
1	+22,-22%	ECJ1V41E105M	0.8	○

□:Capacitance tolerance code: "□" for "K" or "M"

Packaging style code: "V" for taped version (φ180 reel, taping pitch: 4 mm).

### Standard Products for Type "12" (EIA "0805"), Taped Version

Code		B														
Capacitance (μF)	Rated Voltage	DC25V			DC16V			DC10V			DC6.3V			DC4V		
		Part No.	Dim. T (mm)	Temp. Char. X5R	Part No.	Dim. T (mm)	Temp. Char. X5R	Part No.	Dim. T (mm)	Temp. Char. B X5R	Part No.	Dim. T (mm)	Temp. Char. X5R	Part No.	Dim. T (mm)	Temp. Char. X5R
1	±10%(K) or ±20%(M)	ECJ2FB1E105□*	1.25	○	ECJ2FB1C105□*	1.25	○	ECJ2FB1A105□	1.25	○	○					
2.2		ECJ2FB1E225□*	1.25	○	ECJ2FB1C225□*	1.25	○	ECJ2FB1A225□*	1.25	—	○	ECJ2FB0J225K	1.25	○		
4.7		ECJ2FB1E475M*	1.25	○	ECJ2FB1C475□*	1.25	○	ECJ2FB1A475□*	1.25	—	○	ECJ2FB0J475M	1.25	○		
10								ECJ2FB1A106□	1.25	—	○	ECJ2FB0J106M	1.25	○		
22														Under development	1.25	○

Code		F												
Capacitance (μF)	Rated Voltage	DC50V			DC25V			DC16V			DC10V			
		Part No.	Dim. T (mm)	Temp. Char. F Y5V	Part No.	Dim. T (mm)	Temp. Char. F Y5V	Part No.	Dim. T (mm)	Temp. Char. F Y5V	Part No.	Dim. T (mm)	Temp. Char. F Y5V	
1	+80,-20%(Z)	ECJ2FF1H105Z*	1.25	○	ECJ2FF1E105Z*	1.25	○	ECJ2VF1C105Z	0.85	○	○			
2.2					ECJ2FF1E225Z*	1.25	○	ECJGVF1C225Z	0.85	○	○			
4.7								ECJGVF1C475Z	0.85	○	○	ECJGVF1A475Z	0.85	○
10												ECJ2FF1A106Z*	1.25	○

Code		B		
Capacitance (μF)	Rated Voltage	DC6.3V		
	Capacitance Tolerance	Part No.	Dim. T (mm)	Temp. Char. X5R
2.2	+80,-20%(Z)	ECJCV50J225M	0.85	○
4.7		ECJCV50J475M	0.85	○
10		ECJCV50J106M	0.85	○

□:Capacitance tolerance code: "□" for "K" or "M"

Packaging style code: "V" or "F" for taped version (φ180 reel, taping pitch: 4 mm).

\*:"L", "W", "T" Dimension tolerance ±0.15mm

Soldering method of dimension T>1mm: Do not use the flow soldering.

### Standard Products for Type "13" (EIA "1206"), Taped Version

Capacitance (μF)	Code		B															
	Rated Voltage		DC25V			DC16V			DC10V			DC6.3V						
	Capacitance Tolerance	Part No.	Dim. T (mm)	Temp. Char.		Part No.	Dim. T (mm)	Temp. Char.		Part No.	Dim. T (mm)	Temp. Char.		Part No.	Dim. T (mm)	Temp. Char.		
1	±10%(K) or ±20%(M)	ECJ3YB1E105□	1.6	○	○	—	ECJ3FB1C105□	1.15	○	○	—							
2.2		ECJ3YB1E225□	1.6	—	—	○	ECJ3YB1C225□	1.6	○	○	—	ECJ3YB1A225□	1.6	○	○			
4.7		ECJ3YB1E475□	1.6	—	—	○	ECJ3YB1C475□	1.6	—	—	○	ECJ3YB1A475□	1.6	—	○	ECJ3YB0J475□	1.6	○
10		ECJ3YB1E106□	1.6	—	—	○	ECJ3YB1C106□	1.6	—	—	○	ECJ3YB1A106M	1.6	—	○	ECJ3YB0J106M	1.6	○
22		Under development	1.6	—	—	○	Under development	1.6	—	—	○	Under development	1.6	—	○	ECJ3YB0J226M	1.6	○
47																Under development	1.6	○

Capacitance (μF)	Code		B	
	Rated Voltage		DC6.3V	
	Capacitance Tolerance	Part No.	Dim. T (mm)	Temp. Char.
10	±10%(K) or ±20%(M)	ECJDV50J106M	0.85	○
22		ECJDV50J226M	0.85	○

Capacitance (μF)	Code		F														
	Rated Voltage		DC50V			DC25V			DC16V			DC10V					
	Capacitance Tolerance	Part No.	Dim. T (mm)	Temp. Char.		Part No.	Dim. T (mm)	Temp. Char.		Part No.	Dim. T (mm)	Temp. Char.		Part No.	Dim. T (mm)	Temp. Char.	
1	+80, -20%(Z)	ECJ3FF1H105Z	1.15		○	ECJ3FF1E105Z	1.15	○	○	ECJ3VF1C105Z	0.85	○	○				
2.2						ECJ3FF1E225Z	1.15	○	○	ECJ3VF1C225Z	0.85	○	○				
4.7						ECJ3FF1E475Z	1.15	○	—	ECJ3FF1C475Z	1.15	○	○				
10						ECJ3YF1E106Z	1.60	○	—	ECJMFF1C106Z	1.15	○	—	ECJMFF1A106Z	1.15	○	○
22														ECJMFF1A226Z	1.15	○	○

□:Capacitance tolerance code. : "□" for "K" or "M"  
 Packaging style code: "F" and "Y" for taped version (φ180 reel, taping pitch: 4 mm) .  
 Soldering method of dimension T>1mm: Do not use the flow soldering.

### Standard Products for Type "23" (EIA "1210"), Taped Version

Capacitance (μF)	Code		B															
	Rated Voltage		DC50V			DC25V			DC16V			DC10V			DC6.3V			
	Capacitance Tolerance	Part No.	Dim. T (mm)	Temp. Char.		Part No.	Dim. T (mm)	Temp. Char.		Part No.	Dim. T (mm)	Temp. Char.		Part No.	Dim. T (mm)	Temp. Char.		
1	±10%(K) or ±20%(M)	ECJ4YB1H105□	2.0		○													
2.2						ECJ4YB1E225□	2.0		○									
4.7						ECJ4YB1E475□	2.0		○	ECJ4YB1C475□	2.0		○					
10						ECJ4YB1E106M	2.5		○	ECJ4YB1C106M	2.0		○	ECJ4YB1A106□	2.0		○	
22						ECJ4YB1E226M	2.5		○	ECJ4YB1C226M	2.5		○	ECJ4YB1A226M	2.5		○	
47										ECJ4YB1C476M	2.5		○	ECJ4YB1A476M	2.5		○	
100																ECJ4YB0J107M	2.5	○

Capacitance (μF)	Code		F															
	Rated Voltage		DC50V			DC25V			DC16V			DC10V			DC6.3V			
	Capacitance Tolerance	Part No.	Dim. T (mm)	Temp. Char.		Part No.	Dim. T (mm)	Temp. Char.		Part No.	Dim. T (mm)	Temp. Char.		Part No.	Dim. T (mm)	Temp. Char.		
4.7	+80, -20%(Z)	ECJ4YF1H475Z	2.0		○	ECJ4YF1E475Z	2.0		○									
10						ECJ4YF1E106Z	2.0		○	ECJ4YF1C106Z	2.0		○					
22						ECJ4YF1E226Z	2.0		○	ECJ4YF1C226Z	2.0		○	ECJ9FF1A226Z	0.85		○	
47														ECJ4YF1A476Z	2.0		○	
100																	ECJ4YF0J107Z	2.5

□:Capacitance tolerance code. : "□" for "K" or "M"  
 Packaging style code: "Y" for taped version (φ180 reel, taping pitch: 4 mm) .  
 Soldering method of dimension T>1mm: Do not use the flow soldering.

Standard Products for Type "34" (EIA "1812") will be discontinued. The schedule will be announced.

## Looking for pricing, stock, or lifecycle information?

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