

CK series Chip Type, Ultra-low ESR



For SMD



High Ripple Current



Low Impedance

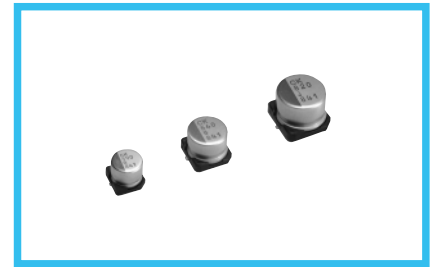


For High Frequency



Anti-Solvent Feature

- Ultra-low ESR, Higher Capacitance, High ripple current.
- Load life of 2000 hours at 105°C.
- SMD type : Lead free reflow soldering condition at 260°C peak correspondence.
- Compliant to the RoHS directive (2002/95/EC).



Specifications

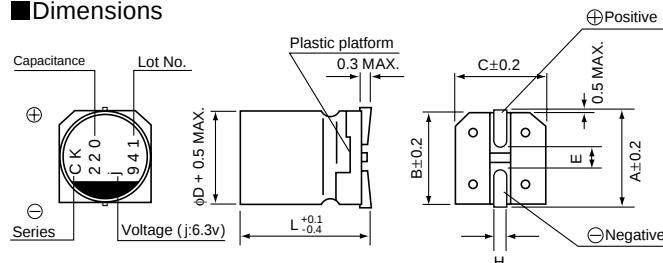
Item	Performance Characteristics		
Category Temperature Range	-55 to +105°C		
Rated Voltage Range	2.5 to 6.3V		
Rated Capacitance Range	220 to 2200μF		
Capacitance Tolerance	±20% at 120Hz, 20°C		
Tangent of loss angle (tan δ)	Less than or equal to the specified value at 120Hz, 20°C		
ESR (※ 1)	Less than or equal to the specified value at 100kHz, 20°C		
Leakage Current (※ 2)	Less than or equal to the specified value . After 2 minutes' application of rated voltage at 20°C		
Temperature Characteristics (Max.Impedance Ratio)	Z+105°C / Z+20°C ≦ 1.25 (100kHz) Z-55°C / Z+20°C ≦ 1.25		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 105°C.	Capacitance change	Within ± 20% of the initial capacitance value (※ 3)
		tan δ	150% or less than the initial specified value
		ESR (※ 1)	150% or less than the initial specified value
		Leakage current (※ 2)	Less than or equal to the initial specified value
Damp Heat (Steady State)	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 60°C, 90% RH.	Capacitance change	Within ± 20% of the initial capacitance value (※ 3)
		tan δ	150% or less than the initial specified value
		ESR (※ 1)	150% or less than the initial specified value
		Leakage current (※ 2)	Less than or equal to the initial specified value
Resistance to Soldering Heat	After soldering the capacitor under the soldering conditions prescribed here, the capacitor shall meet the specifications listed at right, provided that it's temperature profile is measured at the capacitor top and the terminal. Pre-heating shall be done at 150 to 200°C and for 60 to 180 sec. The duration for over +230°C temperature at capacitor surface shall not exceed 60 seconds. In the case of peak temp, less than 250°C, reflow soldering shall be two times maximum. In the case of peak temp, less than 260°C, reflow soldering shall be once. Measurement for solder temperature profile shall be made at the capacitor top and the terminal.	Capacitance change	Within ± 10% of the initial capacitance value (※ 3)
		tan δ	130% or less than the initial specified value
		ESR (※ 1)	130% or less than the initial specified value
		Leakage current (※ 2)	Less than or equal to the initial specified value
Marking	Navy blue print on the case top		

※ 1 ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform.

※ 2 Conditioning : If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.

※ 3 Initial value : The value before test of examination of resistance to soldering.

Dimensions

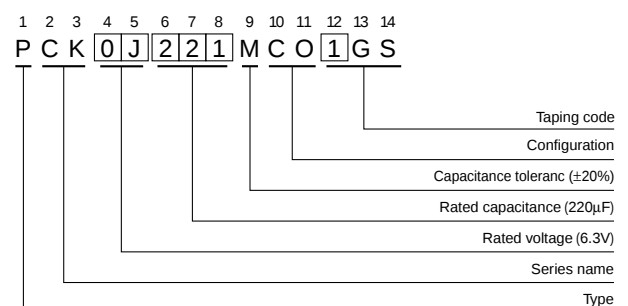


	(mm)			
Size	φ6.3 × 6L	φ8 × 7L	φ10 × 8L	φ10 × 10L
φD	6.3	8.0	10.0	10.0
L	5.9	6.9	7.9	9.9
A	7.3	9.0	11.0	11.0
B	6.6	8.3	10.3	10.3
C	6.6	8.3	10.3	10.3
E	2.1	3.2	4.6	4.6
H	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1

Voltage

V	2.5	4	6.3
Code	e	g	j

Type numbering system (Example : 6.3V 220μF)



■ Standard Ratings

Rated Voltage (V)(code)	Surge Voltage (V)	Rated Capacitance (μ F)	Case Size ϕ D $\times$ L (mm)	$\tan \delta$	Leakage Current (μ A)	ESR (m Ω) (at 100kHz 20°C)	Rated Ripple (mA _{rms})	Part Number
2.5 (0E)	2.8	390	6.3 $\times$ 6	0.12	293	10	3900	PCK0E391MCO1GS
		560	8 $\times$ 7	0.12	420	9	4500	PCK0E561MCO1GS
		680	8 $\times$ 7	0.12	510	9	4500	PCK0E681MCO1GS
		1200	10 $\times$ 8	0.12	900	9	5000	PCK0E122MCO1GS
		2200	10 $\times$ 10	0.12	1650	8	6000	PCK0E222MCO1GS
4 (0G)	4.6	330	6.3 $\times$ 6	0.12	396	10	3900	PCK0G331MCO1GS
		470	8 $\times$ 7	0.12	564	9	4500	PCK0G471MCO1GS
		560	8 $\times$ 7	0.12	672	9	4500	PCK0G561MCO1GS
		1000	10 $\times$ 8	0.12	1200	9	5000	PCK0G102MCO1GS
		1800	10 $\times$ 10	0.12	2160	8	6000	PCK0G182MCO1GS
6.3 (0J)	7.2	220	6.3 $\times$ 6	0.12	416	10	3900	PCK0J221MCO1GS
		330	8 $\times$ 7	0.12	624	9	4500	PCK0J331MCO1GS
		390	8 $\times$ 7	0.12	737	9	4500	PCK0J391MCO1GS
		820	10 $\times$ 8	0.12	1550	9	5000	PCK0J821MCO1GS
		1500	10 $\times$ 10	0.12	2835	8	6000	PCK0J152MCO1GS

Rated ripple current (mA_{rms}) at 105°C 100kHz

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9