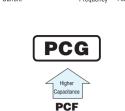
CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

nichicon



- Ø HR High Ripple Low Impedance For High Current Frequency For SMD Anti-Solvent
- Higher Capacitance, Low ESR, 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 (2011/65/EU).
- AEC-Q200 compliant. Please contact us for details.





Specifications

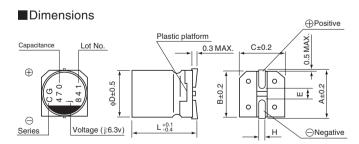
Item	Performance Characteristics								
Category Temperature Range	-55 to +105°C								
Rated Voltage Range	2.5 to 16V								
Rated Capacitance Range	47 to 4700µF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Tangent of loss angle (tan δ)	Less than or equal to the specified value at 120Hz, 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' app	lication of rated voltage	at 20°C						
Temperature Characteristics (Max.Impedance Ratio)	$Z+105^{\circ}C / Z+20^{\circ}C \leq 1.25$ (100kHz) Z-55^{\circ}C / Z+20^{\circ}C \leq 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 tan δ ESR (※ 1) Leakage current (※ 2)	Within ± 20% of the initial capacitance value (* 3) 150% or less than the initial specified value 150% or less than the initial specified value 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 tan δ ESR (% 1) Leakage current (% 2)	Within ± 20% of the initial capacitance value (*3) 150% or less than the initial specified value 150% or less than the initial specified value 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. 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 case peak temperature is 250°C or less, reflow soldering shall be two times maximum. In case peak temperature is 260°C or less, reflow soldering shall be once. Measurement for solder temperature profile shall be made at the capacitor top and the terminal.	Capacitance change tan ô ESR (* 1) Leakage current (* 2)	Within \pm 10% of the initial capacitance value (\approx 3)130% or less than the initial specified value130% or less than the initial specified valueLess 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.

(----)

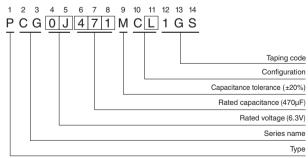
*2 Conditioning : If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.

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



		-				(mm)
Size	φ5 × 6L	$\phi 6.3 \times 6L$	φ8 × 7L	φ10 × 8L	φ10 × 10L	φ10 × 12.7L
φD	5.0	6.3	8.0	10.0	10.0	10.0
L	5.9	5.9	6.9	7.9	9.9	12.6
A	6.0	7.3	9.0	11.0	11.0	11.0
В	5.3	6.6	8.3	10.3	10.3	10.3
С	5.3	6.6	8.3	10.3	10.3	10.3
E	1.6	2.1	3.2	4.6	4.6	4.6
Н	0.5 to 0.8	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1

Type numbering system (Example : 6.3V 470µF)



0.70

1.00

Voltage

Coefficient

0						
V	2.5	4	6.3	10	16	
Code	е	g	j	A	С	

0.05

• Frequency coefficient of rated ripple current 120Hz 1kHz 10kHz 100kHz or more Frequency 0.30





Surge Voltage (V)	Rated Capacitance (µF)	Case Size _{\$\$} D × L (mm)	tan δ	Leakage Current (µA)	ESR (mΩ) (at 100kHz 20°C)	Rated Ripple (mArms)	Part Number
2.8	220	5 × 6	0.12	110	30	2100	PCG0E221MCL1G
	330	5 × 6	0.12	500	30	2200	PCG0E331MCL1G
	330	5 × 6	0.12	500	10	3300	PCG0E331MCO1G
	470	6.3 × 6	0.12	235	20	2900	PCG0E471MCL1G
	560	6.3 × 6	0.12	280	20	3000	PCG0E561MCL1G
	820	8 × 7	0.12	410	20	3300	PCG0E821MCL1G
	1500	10 × 8	0.12	750	17	4100	PCG0E152MCL1G
	2700	10 × 10	0.12	1350	12	4700	PCG0E272MCL1G
	3300	10 × 12.7	0.12	1650	10	5500	PCG0E332MCL1G
	4700	10 × 12.7	0.12	2350	10	5600	PCG0E472MCL1G
	180	5 × 6	0.12	144	32	1900	PCG0G181MCL1G
	220	5 × 6	0.12	300	32	2000	PCG0G221MCL1G
	220	5×6	0.12	300	15	2900	PCG0G221MCO1G
	390	6.3 × 6	0.12	312	22	2700	PCG0G391MCL1G
4.6	680	8 × 7	0.12	544	21	3200	PCG0G681MCL1G
	1200	10 × 8	0.12	960	17	4000	PCG0G122MCL1G
	2200	10 × 10	0.12	1760	13	4600	PCG0G222MCL1G
	2700	10 × 12.7	0.12	2160	11	5300	PCG0G272MCL1G
	3300	10 × 12.7	0.12	2640	11	5400	PCG0G332MCL1G
	150	5 × 6	0.12	189	33	1800	PCG0J151MCL1G
	180	5 × 6	0.12	500	33	1900	PCG0J181MCL1G
	180	5×6	0.12	500	17	3000	PCG0J181MCO10
7.2			0.12	340	23	2600	PCG0J271MCL1G
							PCG0J331MCL1G
							PCG0J471MCL1G
							PCG0J102MCL10
							PCG0J182MCL10
							PCG0J222MCL10
11.5							PCG0J272MCL10
		-					PCG1A820MCL10
							PCG1A101MCL10
							PCG1A151MCL10
							PCG1A181MCL10
							PCG1A331MCL10
							PCG1A561MCL10
							PCG1A821MCL10
							PCG1A102MCL10
							PCG1A152MCL10
18.4							PCG1C470MCL10
							PCG1C470MCL10
							PCG1C820MCL10
							PCG1C101MCL10
							PCG1C151MCL10
	270	10 × 8	0.12	864	25	3300	PCG1C271MCL10
			0.12	1504	20	3700	PCG1C471MCL10
	470 680	10 × 10 10 × 12.7	0.12	2176	18	4100	PCG1C681MCL10
	4.6	33033033047056082015002700330047001802202203904.668012002200270033001501802700330015018022002700330150180100018002200270033056082100150015001500150015001000150010001500100015001000150010001500100015001000150018.4100	330 5×6 330 5×6 470 6.3×6 560 6.3×6 820 8×7 1500 10×8 2700 10×10 3300 10×12.7 4700 10×12.7 4700 10×12.7 4700 10×12.7 4700 5×6 220 5×6 220 5×6 220 5×6 220 5×6 220 5×6 220 10×10 2200 10×10 2700 10×12.7 3300 10×12.7 3300 10×12.7 3300 10×12.7 150 5×6 180 5×6 180 5×6 180 5×6 180 10×10 2200 10×12.7 2700 10×12.7 2700 10×12.7 2700 10×12.7	3305×60.123305×60.123305×60.124706.3×60.125606.3×60.12150010×80.12270010×100.12330010×12.70.12470010×12.70.12470010×12.70.122205×60.122205×60.122205×60.122205×60.122205×60.1222010×80.12220010×80.12220010×100.12220010×100.12220010×12.70.12330010×12.70.12270010×12.70.121805×60.121805×60.121805×60.1218010×100.12220010×12.70.1218010×100.12270010×12.70.1218010×100.1219010×12.70.121905×60.121905×60.121905×60.121905×60.1219010×12.70.121905×60.1219010×12.70.121905×60.1219010×12.70.1219010×12.70.1219010×12.70.12190 <t< td=""><td>330 5×6 0.12 500 330 5×6 0.12 500 470 6.3×6 0.12 235 560 6.3×6 0.12 280 820 8×7 0.12 410 1500 10×8 0.12 750 2700 10×10 0.12 1350 3300 10×12.7 0.12 1350 3300 10×12.7 0.12 2350 4700 10×12.7 0.12 300 220 5×6 0.12 300 220 5×6 0.12 300 220 5×6 0.12 300 220 5×6 0.12 300 220 10×8 0.12 1760 2200 10×10 0.12 1760 2700 10×12.7 0.12 2840 330 6.3×6 0.12 189 180 5×6 0.12 180 270</td></t<> <td>330 5×6 0.12 500 30 330 5×6 0.12 500 10 470 6.3×6 0.12 225 20 560 6.3×6 0.12 280 20 560 6.3×6 0.12 280 20 1500 10×8 0.12 750 17 2700 10×10 0.12 1350 12 3300 10×12.7 0.12 1650 10 4700 10×12.7 0.12 2350 10 4700 10×12.7 0.12 300 32 220 5×6 0.12 300 15 380 6.3×6 0.12 300 15 380 6.3×6 0.12 160 17 2200 10×8 0.12 170 13 1200 10×12.7 0.12 2160 11 3300 15×6 0.12 160 33</td> <td>330 5 × 6 0.12 500 10 3300 470 6.3 × 6 0.12 235 20 2900 560 6.3 × 6 0.12 280 20 3000 620 8 × 7 0.12 280 20 3000 1500 10 × 8 0.12 750 17 4100 2700 10 × 10 0.12 1350 12 4700 3300 10 × 12.7 0.12 1350 12 4700 3300 10 × 12.7 0.12 3300 15 2900 4700 1 × 12.7 0.12 300 32 2000 220 5 × 6 0.12 300 32 2000 220 5 × 6 0.12 300 15 2900 300 6.3 × 6 0.12 300 15 2900 100 10 × 8 0.12 160 11 5300 2200 10 × 12.7 0.12 <td< td=""></td<></td>	330 5×6 0.12 500 330 5×6 0.12 500 470 6.3×6 0.12 235 560 6.3×6 0.12 280 820 8×7 0.12 410 1500 10×8 0.12 750 2700 10×10 0.12 1350 3300 10×12.7 0.12 1350 3300 10×12.7 0.12 2350 4700 10×12.7 0.12 300 220 5×6 0.12 300 220 5×6 0.12 300 220 5×6 0.12 300 220 5×6 0.12 300 220 10×8 0.12 1760 2200 10×10 0.12 1760 2700 10×12.7 0.12 2840 330 6.3×6 0.12 189 180 5×6 0.12 180 270	330 5×6 0.12 500 30 330 5×6 0.12 500 10 470 6.3×6 0.12 225 20 560 6.3×6 0.12 280 20 560 6.3×6 0.12 280 20 1500 10×8 0.12 750 17 2700 10×10 0.12 1350 12 3300 10×12.7 0.12 1650 10 4700 10×12.7 0.12 2350 10 4700 10×12.7 0.12 300 32 220 5×6 0.12 300 15 380 6.3×6 0.12 300 15 380 6.3×6 0.12 160 17 2200 10×8 0.12 170 13 1200 10×12.7 0.12 2160 11 3300 15×6 0.12 160 33	330 5 × 6 0.12 500 10 3300 470 6.3 × 6 0.12 235 20 2900 560 6.3 × 6 0.12 280 20 3000 620 8 × 7 0.12 280 20 3000 1500 10 × 8 0.12 750 17 4100 2700 10 × 10 0.12 1350 12 4700 3300 10 × 12.7 0.12 1350 12 4700 3300 10 × 12.7 0.12 3300 15 2900 4700 1 × 12.7 0.12 300 32 2000 220 5 × 6 0.12 300 32 2000 220 5 × 6 0.12 300 15 2900 300 6.3 × 6 0.12 300 15 2900 100 10 × 8 0.12 160 11 5300 2200 10 × 12.7 0.12 <td< td=""></td<>

Rated ripple current (mArms) 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.



Mouser Electronics

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Nichicon:

PCG0E821MCL1GS	PCG0E152MCL1GS	PCG0E221MCL1GS	PCG0E272MCL1GS	PCG0E332MCL1GS
PCG0E561MCL1GS	PCG0G122MCL1GS	PCG0G181MCL1GS	PCG0G222MCL1GS	PCG0G272MCL1GS
PCG0G391MCL1GS	PCG0G681MCL1GS	PCG0J102MCL1GS	PCG0E471MCL1GS	PCG0J222MCL1GS
PCG0J151MCL1GS	PCG1A821MCL1GS	PCG0J271MCL1GS	PCG0J331MCL1GS	PCG0J471MCL1GS
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PCG1C820MCL1GS	PCG1A561MCL1GS	PCG0J272MCL1GS	PCG0E331MCL1GS	PCG0E331MCO1GS
PCG0E472MCL1GS	PCG0G221MCL1GS	PCG0G221MCO1GS	PCG0G332MCL1GS	PCG0J181MCL1GS
PCG0J181MCO1GS	PCG1A101MCL1GS	PCG1A152MCL1GS	PCG1A181MCL1GS	PCG1C101MCL1GS
PCG1C560MCL1GS	PCG1C821MCL1GS			