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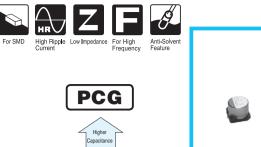


CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

nichicon



- 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).



PCF



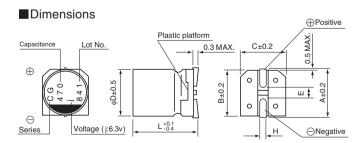
Specifications

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 (* 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.

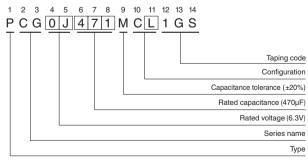
#2 Conditioning : If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.

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



			-	-	-	(mm)
Size	φ5 × 6L	φ6.3 × 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
Α	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 : $6.3V 470 \mu F$)



Voltage

V	2.5	4	6.3	10	16
Code	е	g	j	А	С

PCG Standard Ratings

Rated Voltage (V)(code)	Surge Voltage (V)	Rated Capacitance (µF)	Case Size $\phi D \times L (mm)$	tan δ	Leakage Current (µA)	ESR (mΩ) (at 100kHz 20°C)	Rated Ripple (mArms)	Part Number
		220	5 × 6	0.12	110	30	2100	PCG0E221MCL1G
2.5 (0E)	2.8	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 (0G)	4.6	680	8 × 7	0.12	544	21	3200	PCG0G681MCL1G
(00)		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
	7.2	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	PCG0J181MCO1G
		270	6.3 × 6	0.12	340	23	2600	PCG0J271MCL1G
6.3		330	6.3 × 6	0.12	416	23	2700	PCG0J331MCL1G
(0J)		470	8 × 7	0.12	592	22	3100	PCG0J471MCL1G
		1000	10 × 8	0.12	1260	18	3800	PCG0J102MCL1G
		1800	10 × 10	0.12	2268	14	4400	PCG0J182MCL1G
	11.5	2200	10 × 12.7	0.12	2772	12	5000	PCG0J222MCL1G
		2700	10 × 12.7	0.12	3402	12	5100	PCG0J272MCL1G
		82	5 × 6	0.12	164	35	1700	PCG1A820MCL1G
		100	5 × 6	0.12	250	35	1800	PCG1A101MCL1G
		150	6.3 × 6	0.12	300	25	2500	PCG1A151MCL1G
10		180	6.3 × 6	0.12	360	25	2600	PCG1A181MCL1G
		330	8 × 7	0.12	660	23	3100	PCG1A331MCL1G
(1A)		560	10 × 8	0.12	1120	20	3600	PCG1A561MCL1G
		820	10 × 10	0.12	1640	15	4300	PCG1A821MCL1G
		1000	10 × 12.7	0.12	2000	13	4800	PCG1A102MCL1G
		1500	10 × 12.7	0.12	3000	13	4900	PCG1A152MCL1G
16	18.4	47	5 × 6	0.12	150	40	1500	PCG1C470MCL1G
		56	5 × 6	0.12	240	40	1600	PCG1C560MCL1G
		82	6.3 × 6	0.12	262	30	2300	PCG1C820MCL1G
		100	6.3 × 6	0.12	320	30	2400	PCG1C101MCL1G
		150	8×7	0.12	480	28	2800	PCG1C151MCL1G
(1C)		270	10 × 8	0.12	864	25	3300	PCG1C271MCL1G
		470	10 × 10	0.12	1504	20	3700	PCG1C471MCL1G
		680	10 × 12.7	0.12	2176	18	4100	PCG1C681MCL10
		820	10 × 12.7	0.12	2624	18	4200	PCG1C821MCL1G

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.

