# CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

Chip Type, Standard









• 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,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.





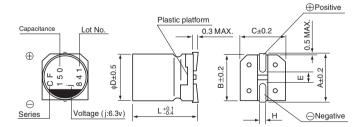


### ■ Specifications

Item	Performance Characteristics									
Category Temperature Range	-55 to +105°C									
Rated Voltage Range	2.5 to 25V									
Rated Capacitance Range	5.8 to 1500μF									
Capacitance Tolerance	±20% at 120Hz, 20°C									
Tangent of loss angle (tan δ)	ess 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' appl	lication 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 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.	Capacitance change tan δ ESR (**1) Leakage current (**2)	Within ± 10% of the initial capacitance value (*3) 130% or less than the initial specified value 130% or less than the initial specified value Less than or equal to the initial specified value							
Marking	Navy blue print on the case top									

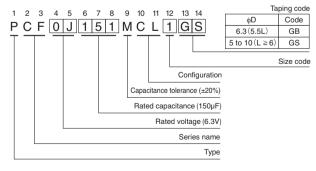
- \* 1 ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform.
- \*2 Conditioning: If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.
- \* 3 Initial value : The value before test of examination of resistance to soldering.

### Dimensions



								(mm)
Size	φ5 × 6L	φ6.3 × 5.5L	φ6.3 × 6L	φ8 × 7L	φ8 × 12L	φ10 × 8L	φ10 × 10L	φ10 × 12.7L
φD	5.0	6.3	6.3	8.0	8.0	10.0	10.0	10.0
L	5.9	5.4	5.9	6.9	11.9	7.9	9.9	12.6
Α	6.0	7.3	7.3	9.0	9.0	11.0	11.0	11.0
В	5.3	6.6	6.6	8.3	8.3	10.3	10.3	10.3
С	5.3	6.6	6.6	8.3	8.3	10.3	10.3	10.3
Е	1.6	2.1	2.1	3.2	3.2	4.6	4.6	4.6
Н	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.8 to 1.1				

### Type numbering system (Example: 6.3V 150µF)



### Voltage

V	2.5	4	6.3	10	16	20	25
Code	е	g	j	Α	С	D	Е

#### Frequency coefficient of rated ripple current

- 1 7				
Frequency	120Hz	1kHz	10kHz	100kHz or more
Coefficient	0.05	0.30	0.70	1.00

# **PCF**

### Dimensions

2.5 (0E)  2.8	Rated Voltage (V) (code)	Surge Voltage (V)	Rated Capacitance (µF)	Case Size φD × L (mm)	tan δ	Leakage Current (µA) (at 20°C after 2 minutes	ESR (mΩ) (20°C/100kHz)	Rated Ripple (mArms) (105°C/100kHz)	Part Number
2.5 (0E)  2.8			100	6.3 × 6	0.12		22	2600	PCF0E101MCL1GS
2.5 (OE)  2.8			220	■ 6.3 × 5.5	0.12	110	20	2800	PCF0E221MCL4GB
(NE)			220	6.3 × 6	0.12	110	20	2800	PCF0E221MCL1GS
10 × 8   0.12   410   17		2.8	470	8 × 7	0.12	235	20	3300	PCF0E471MCL1GS
1800	(UE)		820	10 × 8	0.12	410	17	4400	PCF0E821MCL1GS
100			1500	10 × 10	0.12	750	13	4700	PCF0E152MCL1GS
4			1500	● 10 × 12.7	0.12	750	12	5440	PCF0E152MCL9GS
4.6			100	■ 6.3 × 5.5	0.12	100	22	2600	PCF0G101MCL4GB
4 (0G)  4.6  150			100	6.3 × 6	0.12	80	22	2600	PCF0G101MCL1GS
4.6   150			150	■ 6.3 × 5.5	0.12	120	22	2800	PCF0G151MCL4GB
4 (0G)  4.6  220 8 × 7 0.12 176 21 3200 PCF0G221MCL1GS 330 8 × 7 0.12 264 21 3400 PCF0G231MCL1GS 560 ■ 8 × 12 0.12 448 13 4520 PCF0G631MCL1GS 560 ■ 8 × 12 0.12 448 13 4520 PCF0G631MCL1GS 680 10 × 8 0.12 544 17 4400 PCF0G681MCL1GS 820 10 × 10 0.12 656 13 4600 PCF0G631MCL1GS 1200 10 × 12.7 0.12 960 10 5500 PCF0G122MCL1GS 1200 10 × 12.7 0.12 960 10 5500 PCF0G122MCL1GS 82 ■ 6.3 × 5.5 0.12 148 35 1600 PCF0G32MCL1GS 82 ■ 6.3 × 5.5 0.12 103 23 2600 PCF0J82MCL1GS 82 6.3 × 6 0.12 103 23 2600 PCF0J82MCL1GS 82 6.3 × 6 0.12 103 23 2600 PCF0J82MCL1GS 100 ■ 6.3 × 5.5 0.12 103 23 2600 PCF0J82MCL1GS 100 ■ 6.3 × 6 0.12 12 26 23 2800 PCF0J101MCL1GS 100 ■ 6.3 × 6 0.12 12 26 23 2800 PCF0J101MCL1GS 100 ■ 6.3 × 6 0.12 12 26 23 2800 PCF0J101MCL1GS 100 ■ 6.3 × 6 0.12 151 22 27 220 PCF0J101MCL1GS 120 6.3 × 6 0.12 151 22 23 2800 PCF0J101MCL1GS 120 8 × 7 0.12 189 22 3200 PCF0J101MCL1GS 120 8 × 7 0.12 189 22 3200 PCF0J101MCL1GS 330 10 × 8 0.12 151 23 3000 PCF0J121MCL1GS 470 ■ 8 × 12 0.12 592 12 5500 PCF0J17IMCL1GS 470 ■ 8 × 12 0.12 592 12 5500 PCF0J17IMCL1GS 680 ● 10 × 10 0.12 592 18 4300 PCF0J37IMCL1GS 680 ● 10 × 10 0.12 592 18 4400 PCF0J87IMCL1GS 680 ● 10 × 10 0.12 592 18 4400 PCF0J87IMCL1GS 680 ● 10 × 12.7 0.12 657 14 5000 PCF0J87IMCL1GS 680 ● 10 × 12.7 0.12 657 14 5000 PCF0J87IMCL1GS 680 ● 10 × 12.7 0.12 657 14 5000 PCF0J87IMCL1GS 680 ● 10 × 12.7 0.12 657 14 5000 PCF0J87IMCL1GS 680 ● 10 × 12.7 0.12 657 14 5000 PCF0J87IMCL1GS 680 ● 10 × 12.7 0.12 1033 10 5500 PCF0J88IMCL1GS 680 ● 10 × 12.7 0.12 1033 10 5500 PCF0J88IMCL1GS 680 ● 10 × 12.7 0.12 1033 10 5500 PCF0J88IMCL1GS 680 ● 10 × 12.7 0.12 1033 10 5500 PCF1J85IMCL1GS 680 ● 10 × 12.7 0.12 1033 10 5500 PCF1J85IMCL1GS 680 ● 10 × 12.7 0.12 1033 10 5500 PCF1J85IMCL1GS 680 ● 10 × 12.7 0.12 1033 10 5500 PCF1J85IMCL1GS 680 ● 10 × 12.7 0.12 1033 10 5500 PCF1J85IMCL1GS 680 ● 10 × 12.7 0.12 12 240 23 3000 PCF1J45IMCL1GS 680 ● 10 × 12.7 0.12 300 21 3300 PCF1J45IMCL1GS 680 ● 10 × 12.7 0.12 300 21 3300 PCF1J45IMCL1GS 680 ● 10 × 12.7 0.12 300 21 3300 PCF1J45IMCL1GS 680 ● 10 × 12.7 0.12 400 11 400 1			150	<b>▲</b> 5×6	0.12	300	30	2000	PCF0G151MCL6GS
No.			150	6.3 × 6	0.12	120	22	2800	PCF0G151MCL1GS
0(3)	4	4.0	220	8 × 7	0.12	176	21	3200	PCF0G221MCL1GS
Section	(0G)	4.6	330	8×7	0.12	264	21	3400	PCF0G331MCL1GS
680			470	10 × 8	0.12	376	17	4200	PCF0G471MCL1GS
820			560	■ 8 × 12	0.12	448	13	4520	PCF0G561MCL4GS
1200			680	10 × 8	0.12	544	17	4400	PCF0G681MCL1GS
47			820	10 × 10	0.12	656	13	4800	PCF0G821MCL1GS
82			1200	10 × 12.7	0.12	960	10	5500	PCF0G122MCL1GS
82 6.3 x 6 0.12 103 23 2600 PCF0J820MCL1GS 100 ■ 6.3 x 5.5 0.12 126 23 2800 PCF0J101MCL6GS 100 ● 5 x 6 0.12 126 23 2800 PCF0J101MCL6GS 100 6.3 x 6 0.12 126 23 2800 PCF0J101MCL6GS 1120 6.3 x 6 0.12 151 23 3000 PCF0J121MCL1GS 1120 6.3 x 6 0.12 151 23 3000 PCF0J121MCL1GS 1220 8 x 7 0.12 189 22 3200 PCF0J121MCL1GS 2220 8 x 7 0.12 189 22 3200 PCF0J121MCL1GS 330 10 x 8 0.12 416 18 4200 PCF0J221MCL1GS 470 ■ 8 x 12 0.12 592 12 5300 PCF0J471MCL4GS 470 ■ 8 x 12 0.12 592 12 5300 PCF0J471MCL4GS 470 10 x 8 0.12 592 18 4300 PCF0J471MCL4GS 680 ● 10 x 12.7 0.12 857 14 5000 PCF0J471MCL1GS 680 ● 10 x 12.7 0.12 857 14 5000 PCF0J471MCL1GS 680 ● 10 x 12.7 0.12 857 10 5500 PCF0J471MCL1GS 820 10 x 12.7 0.12 857 10 5500 PCF0J471MCL1GS 820 10 x 12.7 0.12 857 10 5500 PCF0J471MCL1GS 560 ● 10 x 3 x 5 x 6 0.12 165 35 1500 PCF0J471MCL1GS 560 ● 6.3 x 6 0.12 165 35 1500 PCF1A330MCL1GS 560 ■ 6.3 x 6 0.12 112 25 2500 PCF1A470MCL1GS 560 ■ 6.3 x 6 0.12 112 25 2500 PCF1A560MCL4GB 560 ● 6.3 x 6 0.12 112 25 2500 PCF1A560MCL4GB 560 ● 6.3 x 6 0.12 112 25 2500 PCF1A560MCL4GB 560 ● 6.3 x 6 0.12 112 25 2500 PCF1A560MCL4GB 560 ● 6.3 x 6 0.12 112 25 2500 PCF1A560MCL4GB 560 ● 6.3 x 6 0.12 112 25 2500 PCF1A51MCLGGS 560 ■ 8 x 7 0.12 300 23 3200 PCF1A151MCLGGS 560 ■ 8 x 7 0.12 540 20 3600 PCF1A31MCL1GS 560 ■ 8 x 12 0.12 540 13 4500 PCF1A31MCL4GS 560 ■ 8 x 12 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 8 x 12 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 13 4500 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 13 4500 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 13 4500 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 13 4500 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 13 4500 PCF1A31MCL4GS 560 ■ 6.0			47	5×6	0.12	148	35	1600	PCF0J470MCL1GS
82 6.3 x 6 0.12 103 23 2600 PCF0J820MCL1GS 100 ■ 6.3 x 5.5 0.12 126 23 2800 PCF0J101MCL6GS 100 ● 5 x 6 0.12 126 23 2800 PCF0J101MCL6GS 100 6.3 x 6 0.12 126 23 2800 PCF0J101MCL6GS 1120 6.3 x 6 0.12 151 23 3000 PCF0J121MCL1GS 1120 6.3 x 6 0.12 151 23 3000 PCF0J121MCL1GS 1220 8 x 7 0.12 189 22 3200 PCF0J121MCL1GS 2220 8 x 7 0.12 189 22 3200 PCF0J121MCL1GS 330 10 x 8 0.12 416 18 4200 PCF0J221MCL1GS 470 ■ 8 x 12 0.12 592 12 5300 PCF0J471MCL4GS 470 ■ 8 x 12 0.12 592 12 5300 PCF0J471MCL4GS 470 10 x 8 0.12 592 18 4300 PCF0J471MCL4GS 680 ● 10 x 12.7 0.12 857 14 5000 PCF0J471MCL1GS 680 ● 10 x 12.7 0.12 857 14 5000 PCF0J471MCL1GS 680 ● 10 x 12.7 0.12 857 10 5500 PCF0J471MCL1GS 820 10 x 12.7 0.12 857 10 5500 PCF0J471MCL1GS 820 10 x 12.7 0.12 857 10 5500 PCF0J471MCL1GS 560 ● 10 x 3 x 5 x 6 0.12 165 35 1500 PCF0J471MCL1GS 560 ● 6.3 x 6 0.12 165 35 1500 PCF1A330MCL1GS 560 ■ 6.3 x 6 0.12 112 25 2500 PCF1A470MCL1GS 560 ■ 6.3 x 6 0.12 112 25 2500 PCF1A560MCL4GB 560 ● 6.3 x 6 0.12 112 25 2500 PCF1A560MCL4GB 560 ● 6.3 x 6 0.12 112 25 2500 PCF1A560MCL4GB 560 ● 6.3 x 6 0.12 112 25 2500 PCF1A560MCL4GB 560 ● 6.3 x 6 0.12 112 25 2500 PCF1A560MCL4GB 560 ● 6.3 x 6 0.12 112 25 2500 PCF1A51MCLGGS 560 ■ 8 x 7 0.12 300 23 3200 PCF1A151MCLGGS 560 ■ 8 x 7 0.12 540 20 3600 PCF1A31MCL1GS 560 ■ 8 x 12 0.12 540 13 4500 PCF1A31MCL4GS 560 ■ 8 x 12 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 8 x 12 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 20 3600 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 13 4500 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 13 4500 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 13 4500 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 13 4500 PCF1A31MCL4GS 560 ■ 6.0 x 8 0.12 540 13 4500 PCF1A31MCL4GS 560 ■ 6.0		7.2	82	■ 6.3 × 5.5	0.12	103	23	2600	PCF0J820MCL4GB
7.2  100			82		0.12	103	23	2600	PCF0J820MCL1GS
7.2    100			100	■ 6.3 × 5.5	0.12	126	23	2800	PCF0J101MCL4GB
6.3 (OJ)  7.2    120			100		0.12	315	25	2200	PCF0J101MCL6GS
6.3 (OJ)  7.2  150  8 × 7  0.12  189  22  3200  PCF0J151MCL1GS  220  8 × 7  0.12  277  22  3400  PCF0J221MCL1GS  330  10 × 8  0.12  416  18  4200  PCF0J331MCL1GS  470  ■ 8 × 12  0.12  592  12  5300  PCF0J471MCL4GS  470  10 × 10  0.12  592  18  4300  PCF0J471MCL4GS  470  10 × 10  0.12  592  18  4300  PCF0J471MCL4GS  470  10 × 10  0.12  592  16  4600  PCF0J471MCL1GS  680  10 × 10  0.12  857  10  5500  PCF0J481MCL1GS  820  10 × 12.7  0.12  857  10  5500  PCF0J881MCL1GS  820  10 × 12.7  0.12  1033  10  5800  PCF0J881MCL1GS  820  10 × 12.7  0.12  1033  10  5800  PCF0J881MCL1GS  820  10 × 12.7  0.12  1033  10  5800  PCF0J881MCL1GS  820  10 × 12.7  0.12  1033  10  5800  PCF0J881MCL1GS  47  ■ 5 × 6  0.12  165  35  1500  PCF1A330MCL1GS  47  ■ 6.3 × 6  0.12  112  25  2500  PCF1A470MCL6GS  47  ■ 6.3 × 6  0.12  112  25  2500  PCF1A560MCL4GB  566  6.3 × 6  0.12  112  25  2500  PCF1A560MCL4GB  120  8 × 7  0.12  1112  25  2500  PCF1A560MCL1GS  120  8 × 7  0.12  1112  25  2500  PCF1A560MCL1GS  120  8 × 7  0.12  110  11.5  150  10 × 8  0.12  10 × 8  0.12  10 × 8  0.12  10 × 8  0.12  11 × 94			100	6.3 × 6	0.12	126	23	2800	PCF0J101MCL1GS
(0J)    7.2     220   8 × 7   0.12   277   22   3400   PCF0J221MCL1GS     330			120	6.3 × 6	0.12	151	23	3000	PCF0J121MCL1GS
(OJ)    1.2   220	6.3		150	8 × 7	0.12	189	22	3200	PCF0J151MCL1GS
10					0.12		22	3400	
10			330	10 × 8	0.12	416	18	4200	PCF0J331MCL1GS
10 (1A)  11.5    470			470	■ 8 × 12	0.12	592	12	5300	PCF0J471MCL4GS
10 (1A)  11.5  680			470	▲ 10×8	0.12	592	18	4300	PCF0J471MCL6GS
10			470	10 × 10	0.12	592	16	4600	PCF0J471MCL1GS
10 (1A)  11.5  820			680	10 × 10	0.12	857	14	5000	PCF0J681MCL1GS
10 (1A)  11.5  33			680	● 10 × 12.7	0.12	857	10	5500	PCF0J681MCL9GS
10 (1A)  11.5  11.5  11.5  11.5  11.5  11.5  11.5  11.5  11.6  11.5  11			820	10 × 12.7	0.12	1033	10	5800	PCF0J821MCL1GS
10 (1A)  11.5  47 6.3 × 6 0.12 94 26 2600 PCF1A470MCL1GS 56 ■ 6.3 × 5.5 0.12 112 25 2500 PCF1A560MCL4GB 56 6.3 × 6 0.12 112 25 2500 PCF1A560MCL1GS 120 8 × 7 0.12 240 23 3000 PCF1A121MCL1GS 150 ▲ 8 × 7 0.12 300 23 3200 PCF1A151MCL6GS 150 10 × 8 0.12 300 21 3300 PCF1A151MCL1GS 270 ■ 8 × 12 0.12 540 13 4500 PCF1A271MCL4GS 270 10 × 8 0.12 540 13 4500 PCF1A271MCL4GS 330 ■ 8 × 12 0.12 540 20 3600 PCF1A271MCL1GS 330 ■ 8 × 12 0.12 660 14 4000 PCF1A331MCL4GS 330 10 × 8 0.12 660 20 3700 PCF1A331MCL4GS 470 10 × 10 0.12 940 16 4600 PCF1A471MCL1GS 470 ● 10 × 12.7 0.12 940 12 5300 PCF1A471MCL1GS 560 10 × 10 0.12 1120 15 4800 PCF1A561MCL1GS			33	5×6	0.12	165	35	1500	PCF1A330MCL1GS
10 (1A)  11.5    56			47	<b>▲</b> 5×6	0.12	235	26	2600	PCF1A470MCL6GS
10 (1A)  11.5  11.5  11.5  120  130  1300  150  150  150  150  150  1			47	6.3 × 6	0.12	94	26	2600	PCF1A470MCL1GS
10 (1A)  11.5  120 8×7 0.12 240 23 3000 PCF1A121MCL1GS  150 ▲ 8×7 0.12 300 23 3200 PCF1A151MCL6GS  150 10×8 0.12 300 21 3300 PCF1A151MCL1GS  270 ■ 8×12 0.12 540 13 4500 PCF1A271MCL4GS  270 10×8 0.12 540 20 3600 PCF1A271MCL1GS  330 ■ 8×12 0.12 660 14 4000 PCF1A31MCL4GS  330 10×8 0.12 660 20 3700 PCF1A31MCL1GS  470 10×10 0.12 940 16 4600 PCF1A471MCL1GS  470 ● 10×12.7 0.12 940 12 5300 PCF1A471MCL1GS  560 10×10 0.12 1120 15 4800 PCF1A561MCL1GS			56		0.12	112	25	2500	PCF1A560MCL4GB
10 (1A)  11.5  120 8×7 0.12 240 23 3000 PCF1A121MCL1GS  150 ▲ 8×7 0.12 300 23 3200 PCF1A151MCL6GS  150 10×8 0.12 300 21 3300 PCF1A151MCL1GS  270 ■ 8×12 0.12 540 13 4500 PCF1A271MCL4GS  270 10×8 0.12 540 20 3600 PCF1A271MCL1GS  330 ■ 8×12 0.12 660 14 4000 PCF1A31MCL4GS  330 10×8 0.12 660 20 3700 PCF1A31MCL1GS  470 10×10 0.12 940 16 4600 PCF1A471MCL1GS  470 ● 10×12.7 0.12 940 12 5300 PCF1A471MCL1GS  560 10×10 0.12 1120 15 4800 PCF1A561MCL1GS			56	6.3 × 6	0.12	112	25	2500	PCF1A560MCL1GS
10 (1A)  11.5  150  10 × 8  0.12  300  21  3300  PCF1A151MCL1GS  270  ■ 8 × 12  0.12  540  13  4500  PCF1A271MCL4GS  270  10 × 8  0.12  540  20  3600  PCF1A271MCL4GS  330  ■ 8 × 12  0.12  660  14  4000  PCF1A331MCL4GS  330  10 × 8  0.12  660  20  3700  PCF1A31MCL1GS  470  10 × 10  0.12  940  16  4600  PCF1A471MCL1GS  470  ● 10 × 12.7  0.12  940  12  5300  PCF1A471MCL1GS  470  ● 10 × 12.7  0.12  940  12  5300  PCF1A471MCL1GS					0.12	240	23	3000	PCF1A121MCL1GS
10 (1A)  11.5  150  10 × 8  0.12  300  21  3300  PCF1A151MCL1GS  270  ■ 8 × 12  0.12  540  13  4500  PCF1A271MCL4GS  270  10 × 8  0.12  540  20  3600  PCF1A271MCL1GS  330  ■ 8 × 12  0.12  660  14  4000  PCF1A331MCL4GS  330  10 × 8  0.12  660  20  3700  PCF1A31MCL1GS  470  10 × 10  0.12  940  16  4600  PCF1A471MCL1GS  470  ● 10 × 12.7  0.12  940  12  5300  PCF1A471MCL1GS  470  ● 10 × 12.7  0.12  940  12  5300  PCF1A471MCL1GS					0.12				
11.5  270 ■ 8 × 12 0.12 540 13 4500 PCF1A271MCL4GS  270 10 × 8 0.12 540 20 3600 PCF1A271MCL1GS  330 ■ 8 × 12 0.12 660 14 4000 PCF1A331MCL4GS  330 10 × 8 0.12 660 20 3700 PCF1A331MCL1GS  470 10 × 10 0.12 940 16 4600 PCF1A471MCL1GS  470 ● 10 × 12.7 0.12 940 12 5300 PCF1A471MCL9GS  560 10 × 10 0.12 1120 15 4800 PCF1A561MCL1GS	10	44.5			0.12				PCF1A151MCL1GS
270     10 × 8     0.12     540     20     3600     PCF1A271MCL1GS       330     ■ 8 × 12     0.12     660     14     4000     PCF1A331MCL4GS       330     10 × 8     0.12     660     20     3700     PCF1A331MCL1GS       470     10 × 10     0.12     940     16     4600     PCF1A471MCL1GS       470     ● 10 × 12.7     0.12     940     12     5300     PCF1A471MCL9GS       560     10 × 10     0.12     1120     15     4800     PCF1A561MCL1GS		11.5							PCF1A271MCL4GS
330     ■ 8 × 12     0.12     660     14     4000     PCF1A331MCL4GS       330     10 × 8     0.12     660     20     3700     PCF1A331MCL1GS       470     10 × 10     0.12     940     16     4600     PCF1A471MCL1GS       470     ● 10 × 12.7     0.12     940     12     5300     PCF1A471MCL9GS       560     10 × 10     0.12     1120     15     4800     PCF1A561MCL1GS					0.12				PCF1A271MCL1GS
330     10 × 8     0.12     660     20     3700     PCF1A331MCL1GS       470     10 × 10     0.12     940     16     4600     PCF1A471MCL1GS       470     10 × 12.7     0.12     940     12     5300     PCF1A471MCL9GS       560     10 × 10     0.12     1120     15     4800     PCF1A561MCL1GS									
470     10 × 10     0.12     940     16     4600     PCF1A471MCL1GS       470     ● 10 × 12.7     0.12     940     12     5300     PCF1A471MCL9GS       560     10 × 10     0.12     1120     15     4800     PCF1A561MCL1GS									
470     ● 10 × 12.7     0.12     940     12     5300     PCF1A471MCL9GS       560     10 × 10     0.12     1120     15     4800     PCF1A561MCL1GS					0.12			4600	PCF1A471MCL1GS
560 10 × 10 0.12 1120 15 4800 PCF1A561MCL1GS									
								4800	
									PCF1A561MCL9GS



### ■Dimensions

Rated Voltage (V) (code)	Surge Voltage (V)	Rated Capacitance (µF)	Case Size φD × L (mm)	tan δ	Leakage Current (µA) (at 20°C after 2 minutes	ESR (mΩ) (20°C/100kHz)	Rated Ripple (mArms) (105°C/100kHz)	Part Number
		22	5 × 6	0.12	176	45	1210	PCF1C220MCL1GS
		33	6.3 × 6	0.12	106	31	2400	PCF1C330MCL1GS
		39	■ 6.3 × 5.5	0.12	125	31	2400	PCF1C390MCL4GB
		39	6.3 × 6	0.12	125	31	2400	PCF1C390MCL1GS
		56	8 × 7	0.12	179	30	2900	PCF1C560MCL1GS
		82	8 × 7	0.12	262	28	3200	PCF1C820MCL1GS
16 (1C)	18.4	100	10 × 8	0.12	320	27	3300	PCF1C101MCL1GS
(10)		150	10 × 8	0.12	480	25	3500	PCF1C151MCL1GS
		180	■ 8 × 12	0.12	576	16	4400	PCF1C181MCL4GS
		180	10 × 8	0.12	576	25	3600	PCF1C181MCL1GS
		220	10 × 10	0.12	704	20	3900	PCF1C221MCL1GS
		220	● 10 × 12.7	0.12	704	14	5050	PCF1C221MCL9GS
		330	10 × 12.7	0.12	1056	14	5000	PCF1C331MCL1GS
	23	10	5 × 6	0.12	100	120	900	PCF1D100MCL1GS
		22	■ 6.3 × 5.5	0.12	100	50	1700	PCF1D220MCL4GB
		22	6.3 × 6	0.12	88	50	1700	PCF1D220MCL1GS
		39	8 × 7	0.12	156	45	2000	PCF1D390MCL1GS
00		47	8 × 7	0.12	188	45	2000	PCF1D470MCL1GS
20 (1D)		56	10 × 8	0.12	224	40	2400	PCF1D560MCL1GS
(12)		68	10 × 8	0.12	272	40	2600	PCF1D680MCL1GS
		82	10 × 8	0.12	328	40	2600	PCF1D820MCL1GS
		100	8 × 12	0.12	400	22	3200	PCF1D101MCL1GS
		120	10 × 10	0.12	480	35	2800	PCF1D121MCL1GS
		150	10 × 12.7	0.12	600	20	4320	PCF1D151MCL1GS
		6.8	6.3 × 6	0.12	85	80	1200	PCF1E6R8MCL1GS
		10	8 × 7	0.12	125	60	1600	PCF1E100MCL1GS
0-		22	10 × 8	0.12	275	50	2200	PCF1E220MCL1GS
25 (1E)	28.7	33	8 × 12	0.12	413	30	2800	PCF1E330MCL1GS
(12)		47	■ 8 × 12	0.12	588	30	3000	PCF1E470MCL4GS
		47	10 × 10	0.12	588	45	2400	PCF1E470MCL1GS
		56	10 × 12.7	0.12	700	28	3800	PCF1E560MCL1GS

<sup>•</sup> For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.

No marked, 

| will be put at 12th digit of type numbering system.
| to this case, | will be put at 12th digit of type numbering system.
| to this case, | will be put at 12th digit of type numbering system.

<sup>•:</sup> In this case, 9 will be put at 12th digit of type numbering system.

# **Mouser Electronics**

**Authorized Distributor** 

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## Nichicon:

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PCF1E470MCL1GS PCF1E6R8MCL1GS PCF1A271MCL1GS PCF1D820MCL1GS PCF1C390MCL1GS
PCF1A470MCL1GS PCF1A471MCL1GS PCF1A560MCL1GS PCF1C151MCL1GS PCF1C181MCL1GS
PCF1E220MCL1GS PCF1C330MCL1GS PCF1E100MCL1GS PCF1C560MCL1GS PCF1C820MCL1GS
PCF1D220MCL1GS PCF1D390MCL1GS PCF1D680MCL1GS PCF1A151MCL6GS PCF1A331MCL1GS
PCF0J221MCL1GS PCF0G221MCL1GS PCF0G331MCL1GS PCF0G471MCL1GS PCF0G681MCL1GS
PCF0G821MCL1GS PCF0J101MCL1GS PCF0G101MCL1GS PCF0J151MCL1GS PCF0E821MCL1GS
PCF0J331MCL1GS PCF0J471MCL1GS PCF0J471MCL6GS PCF0J820MCL1GS PCF1A121MCL1GS
PCF1A151MCL1GS PCF0J121MCL1GS PCF0G151MCL1GS PCF0E101MCL1GS PCF0E152MCL1GS
PCF0E221MCL1GS PCF0E471MCL1GS PCF0E152MCL9GS PCF0E221MCL4GB PCF0G101MCL4GB
PCF0G122MCL1GS PCF0G151MCL4GB PCF0G151MCL6GS PCF0G561MCL4GS PCF0J101MCL4GB
PCF0J101MCL6GS PCF0J470MCL1GS PCF0J471MCL4GS PCF0J820MCL4GB PCF0J821MCL1GS
PCF1A271MCL4GS PCF1A330MCL1GS PCF1A331MCL4GS PCF1A470MCL6GS PCF1A560MCL4GB
PCF1A561MCL9GS PCF1C181MCL4GS PCF1C220MCL1GS PCF1C331MCL1GS PCF1C390MCL4GB
PCF1D101MCL1GS PCF1D151MCL1GS PCF1D220MCL4GB PCF1D470MCL1GS PCF1D560MCL1GS
PCF1E330MCL1GS PCF1E470MCL4GS PCF1E560MCL1GS PCF0J681MCL1GS PCF1A561MCL1GS
PCF1C221MCL1GS PCF1D121MCL1GS PCF0J681MCL9GS PCF1A471MCL9GS PCF1C101MCL1GS
PCF1C221MCL9GS PCF1D100MCL1GS
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