CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

Chip Type, Higher Capacitance High Temperature Range













- High reliability, High voltage (to 80V).
- •Low ESR, High ripple current.
- ●Long life of 4000 hours at 135°C
- SMD type : Lead free reflow soldering condition at 260°C peak complete correspondence.
- Compliant to the RoHS directive (2011/65/EU).
- ESR after Endurance at -40°C.
- AEC-Q200 compliant. Please contact us for details.



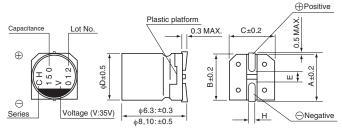


■Specifications

Item	Performar	nce Characteristics	
Category Temperature Range	−55 to +135°C		
Rated Voltage Range	16 to 80V		
Rated Capacitance Range	12 to 1000μF		
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)	After 2 minutes' application of rated voltage, leakage current is r	not more than 0.03CV o	r 3(μΑ), whichever is greater.
Temperature Characteristics (Max.Impedance Ratio)	Z–55°C / Z+20°C ≦ 1.25 (100kHz)		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 4000 hours (2000 hours for $\phi D=6.3$) at 135°C.	Capacitance change tan δ ESR (※1) Leakage current (※2)	Within ± 20% of initial capacitance value (*3) 150% or less of the initial specified value 200% or less of the initial specified value Less than or equal to the initial specified value
Shelf Life	After storing the capacitors under no load at 135°C for 1000 ho clause 4.1 at 20°C, they shall meet the specified values for the		
ESR after Endurance (% 1)	Less than or equal to the specified value at 100kHz, -40°C		
(Chanda Chaha)	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 85°C, 85% RH.	Capacitance change tan δ ESR (※1) Leakage current (※2)	Within ± 20% of initial capacitance value (*3) 150% or less of the initial specified value 200% or less of 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 260°C or less, reflow soldering shall be two times maximum. Measurement for solder temperature profile shall be made at the capacitor top and the terminal.	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
	capacitor top and the terminal		

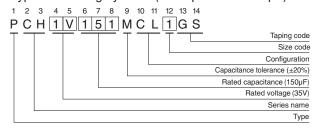
- *1 ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform.
- *2 Conditioning: If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.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

Dimensions



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

Type numbering system (Example : 35V 150μF)



Voltage

V	16	20	25	35	50	63	80
Code	С	D	Е	٧	Н	J	K

Frequency coefficient of rated ripple current

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

Design, Specifications are subject to change without notice.

CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

PCH

Dimensions

ated Voltage (V)(code)	Surge Voltage (V)	Rated Capacitance (µF)	Case Size $\phi D \times L \text{ (mm)}$	tan δ	Initial ESR (mΩ) (20°C / 100kHz)	Low temp. ESR after Endurance (mΩ) (-40°C / 100kHz)	Rated Ripple (mArms) (135°C / 100kHz)	Part Number
		120	6.3 × 6	0.08	36	72	900	PCH1C121MCL1G
16		220	■ 6.3 × 8	0.08	23	46	1500	PCH1C221MCL4G
		220	8×7	0.08	30	60	1100	PCH1C221MCL1G
	00	470	▲ 8×10	0.08	17	34	2400	PCH1C471MCL6G
(1C)	20	470	10 × 8	0.08	22	44	1900	PCH1C471MCL1G
		560	8 × 12	0.08	16	32	2700	PCH1C561MCL1G
		680	10 × 10	0.08	19	38	2300	PCH1C681MCL1G
		1000	10 × 12.7	0.08	13	26	2500	PCH1C102MCL1G
		100	6.3 × 6	0.08	41	82	900	PCH1D101MCL1G
		150	■ 6.3 × 8	0.08	25	50	1200	PCH1D151MCL40
		150	8 × 7	0.08	39	78	800	PCH1D151MCL10
20 (1D)	0.5	330	▲ 8×10	0.08	19	38	2300	PCH1D331MCL60
(1D)	25	330	10 × 8	0.08	23	46	1800	PCH1D331MCL10
		470	8 × 12	0.08	18	36	2500	PCH1D471MCL10
		560	10 × 10	0.08	20	40	2200	PCH1D561MCL10
		680	10 × 12.7	0.08	14	28	3000	PCH1D681MCL10
		56	6.3 × 6	0.08	43	86	900	PCH1E560MCL10
		100	■ 6.3 × 8	0.08	27	54	1100	PCH1E101MCL40
		100	8×7	0.08	41	82	800	PCH1E101MCL10
25		220	▲ 8×10	0.08	20	40	2300	PCH1E221MCL60
25 (1E)	31	220	10 × 8	0.08	24	48	1800	PCH1E221MCL10
		270	8 × 12	0.08	19	38	2300	PCH1E271MCL10
		330	10 × 10	0.08	20	40	2200	PCH1E331MCL10
		470	10 × 12.7	0.08	15	30	2900	PCH1E471MCL10
		47	6.3 × 6	0.08	48	96	800	PCH1V470MCL10
		68	■ 6.3 × 8	0.08	31	62	1100	PCH1V680MCL40
		68	8×7	0.08	44	88	800	PCH1V680MCL10
35	40	150	▲ 8×10	0.08	22	44	2200	PCH1V151MCL60
35 (1V)	43	150	10 × 8	0.08	25	50	1800	PCH1V151MCL10
		220	8 × 12	0.08	21	42	2300	PCH1V221MCL10
		270	10 × 10	0.08	20	40	2200	PCH1V271MCL10
		330	10 × 12.7	0.08	16	32	2800	PCH1V331MCL10
		22	6.3 × 6	0.08	50	100	700	PCH1H220MCL10
	63	39	■ 6.3 × 8	0.08	36	72	900	PCH1H390MCL40
		39	8×7	0.08	45	90	900	PCH1H390MCL10
50		82	▲ 8×10	0.08	26	52	2100	PCH1H820MCL60
(1H)		82	10 × 8	0.08	34	68	1600	PCH1H820MCL10
		120	△ 8 × 12	0.08	25	50	2100	PCH1H121MCL20
		120	10 × 10	0.08	25	50	2100	PCH1H121MCL10
		180	10 × 12.7	0.08	19	38	2500	PCH1H181MCL10
		12	6.3 × 6	0.08	51	102	700	PCH1J120MCL1G
63 (1J)		22	■ 6.3 × 8	0.08	45	90	800	PCH1J220MCL4G
	79	22	8×7	0.08	48	96	800	PCH1J220MCL1G
		39	8 × 10	0.08	28	56	1900	PCH1J390MCL1G
		47	10 × 8	0.08	35	70	1500	PCH1J470MCL1G
		56	8 × 12	0.08	27	54	2100	PCH1J560MCL1G
		68	10 × 10	0.08	28	56	2000	PCH1J680MCL1G
		100	10 × 12.7	0.08	24	48	2100	PCH1J101MCL1G
		12	6.3 × 8	0.08	50	100	800	PCH1K120MCL10
		27	8 × 10	0.08	38	76	1000	PCH1K270MCL10
80	100	39	8 × 12	0.08	35	70	1100	PCH1K390MCL10
(1K)		47	10 × 10	0.08	33	66	1200	PCH1K470MCL10
		68	10 / 10	0.08	28	56	1500	PCH1K680MCL1G

No marked, 1 will be put at 12th digit of type numbering system.

△: In this case, 2 will be put at 12th digit of type numbering system.

Δ: In this case, 4 will be put at 12th digit of type numbering system.

Δ: In this case, 6 will be put at 12th digit of type numbering system.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Aluminium Organic Polymer Capacitors category:

Click to view products by Nichicon manufacturer:

Other Similar products are found below:

750-1809 MS27467T25F24P MS27467T25F29P SEAU0A0102G MS3470W8-33P L/C MAL218497801E3 MAL218297003E3

MAL218497803E3 MAL218397603E3 MAL218497701E3 MAL218497804E3 MAL218697005E3 MAL218397604E3 MAL218697106E3

MAL218297103E3 MAL218397104E3 MAL218297604E3 MAL218697601E3 MAL218697554E3 MAL218697607E3 MAL218397702E3

MAL218297702E3 MAL218497901E3 MAL218497806E3 MAL218697001E3 MPP683J6130510LC PCZ1V181MCL1GS

PCZ1V221MCL1GS PCZ1E331MCL1GS 40HVH120M GYA1C151MCQ1GS GYA1C271MCQ1GS GYA1C471MCQ1GS

GYA1C820MCQ1GS BC6R3M471LC6.3*8L-1A4T ULR277M1CF1ARR 8221LFM1013H2RR000 160ARUP471M06A1E10T

6R3AREP271M05X7E15P26 250ARHA102M10A6T SPZ1VM221F11000RAXXX SPZ1EM471E14000RAXXX

SPZ1JM470E09000RAXXX SPZ1HM331G15000RAXXX SPZ1AM122G12000RAXXX SPZ1AM152G12000RAXXX

SPZ1VM681G16000RAXXX SPZ1HM220E07000RAXXX RNE1C561MDNASQ RNU1D391MDN1