CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

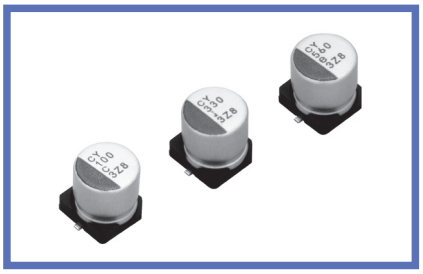
nichicon

PCY

High temperature,
Long life Assurance

For SMD | High Ripple Current | Low Impedance | For High Frequency | Long Life

NEW



- High temperature, Long life Assurance, Low ESR.
- Long Life of 12000 hours at 125°C.
- SMD type : Lead free reflow soldering condition at 260°C peak complete correspondence.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 Qualified. Please contact us for details.

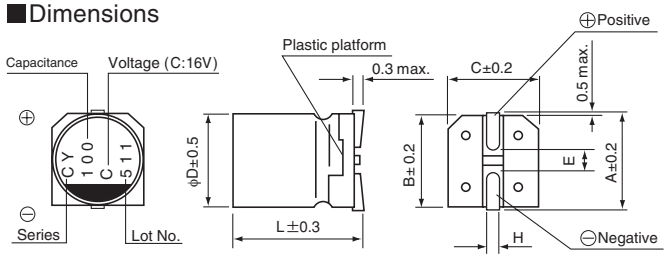
PCY ← High temperature, Long life PCL

■Specifications

Item	Performance Characteristics
Category Temperature Range	−55 to +125°C
Rated Voltage Range	2.5 to 16V
Rated Capacitance Range	100 to 560µF
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(+125°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 12000 hours at 125°C. Capacitance change: Within ± 20% of the initial capacitance value (※3) tan δ: 150% or less than the initial specified value ESR (※1): 200% 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 85°C, 85% RH. Capacitance change: Within ± 20% of the initial capacitance value (※3) tan δ: 150% or less than the initial specified value ESR (※1): 200% 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. 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. The temperature profile measurement shall be the temperature at the top of the capacitor. 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 × 6.7L
φD	6.3
L	6.7
A	7.3
B	6.6
C	6.6
E	2.1
H	0.5 to 0.8

Voltage

V	2.5	6.3	16
Code	e	j	C

Type numbering system (Example : 16V 100µF)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
P	C	Y	1	C	1	0	1	M	C	L	1	G	S

- 14: Taping code
- 12–13: Size code
- 11: Configuration
- 9–10: Capacitance tolerance (±20%)
- 6–8: Rated capacitance (100µF)
- 4–5: Rated voltage (16V)
- 1–3: Type, Series name

●Frequency coefficient of rated ripple current

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

●Dimension table in next page.

PCY

■Dimensions

Rated Voltage (V) (code)	Surge Voltage (V)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20℃ after 2 minutes)	ESR (mΩ) (20℃ /100kHz)	Rated Ripple (mArms) (125℃ /100kHz)	Part Number
2.5 (0E)	2.9	560	6.3×6.7	0.12	280	16	1300	PCY0E561MCL1GS
6.3 (0J)	7.2	330	6.3×6.7	0.12	415	18	1300	PCY0J331MCL1GS
16 (1C)	18	100	6.3×6.7	0.12	320	25	1000	PCY1C101MCL1GS