CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

PCW

Chip Type, 125°C Reliability



- Ripple Load Life of 2000h at 125°C.
- High reliability, Low ESR, High ripple current.
- •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.

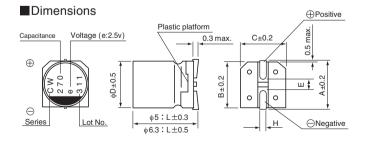




■Specifications

Item	Performance Characteristics					
Category Temperature Range	−55 to +125°C					
Rated Voltage Range	2.5 to 6.3V					
Rated Capacitance Range	150 to 390µF					
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 (Less than or equal to the specified value . After 2 minutes' app	olication of rated voltage	e at 20°C			
Temperature Characteristics (Max.Impedance Ratio)	$Z(+125^{\circ}C) / Z(+20^{\circ}C) \le 1.25$ (100kHz) $Z(-40^{\circ}C) / Z(+20^{\circ}C) \le 1.25$					
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 2000 hours at 125°C, the peak voltage shall not exceed the rated voltage.	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 85°C, 85% 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. The temperature profile measurement shall be the temperature at the top of the capacitor.	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					

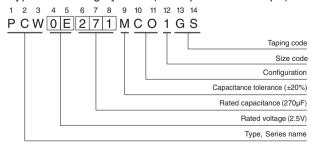
- *1 ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform.
- *2 Conditioning: If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.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



(mı					
Size	φ5 × 6L	φ6.3 × 6L			
φD	5.0	6.3			
L	5.9	6.0			
Α	6.0	7.3			
В	5.3	6.6			
С	5.3	6.6			
Е	1.6	2.1			
Н	0.5 to 0.8	0.5 to 0.8			

Voltage						
V	2.5	4	6.3			
Code	е	g	j			

Type numbering system (Example : 2.5V 270µF)



• Frequency coefficient of rated ripple current

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

PCW

■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) (125°C /100kHz)	Part Number
2.5	2.8	270	5×6	0.08	270	16	1800	PCW0E271MCO1GS
(0E)	2.0	390	6.3×6	0.08	292	15	1890	PCW0E391MCO1GS
4 (0G)	4.6	180	5×6	0.08	288	17	1720	PCW0G181MCO1GS
		330	6.3×6	0.08	396	16	1800	PCW0G331MCO1GS
6.3	7.2	150	5×6	0.08	378	18	1580	PCW0J151MCO1GS
(0J)		220	6.3×6	0.08	415	16	1800	PCW0J221MCO1GS

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