CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

Chip Type, Higher Capacitance High Temperature Range











- High reliability.
- •Low ESR, High ripple current.
- ●Long life of 2000 hours at 150°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.



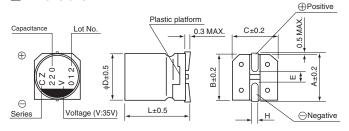


■Specifications

Item	Performa	Performance Characteristics			
Category Temperature Range	−55 to +150°C				
Rated Voltage Range	25 to 35V				
Rated Capacitance Range	100 to 330µF				
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	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 2000 hours at 150°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		
ESR after Endurance (% 1)	Less than or equal to the specified value at 100kHz, -40°C				
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 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		
Marking	Navy blue print on the case top				

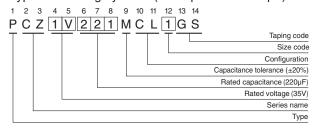
- *1 ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform.
- *2 Conditioning: If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.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

Dimensions



			(mm)
Size	φ8 × 10L	φ10 × 10L	φ10 × 12.7L
φD	8.0	10.0	10.0
L	9.9	9.9	12.6
Α	9.0	11.0	11.0
В	8.3	10.3	10.3
С	8.3	10.3	10.3
Е	3.2	4.6	4.6
Н	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1

Type numbering system (Example: 35V 220µF)



Voltage

V	25	35	
Code	Е	V	

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.

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PCZ

■ Dimensions

Rated Voltage (V)(code)	Surge Voltage (V)	Rated Capacitance (µF)	Case Size φD × L (mm)	tan δ	Initial ESR (mΩ) (20°C / 100kHz)	Low temp. ESR after Endurance (mΩ) (-40°C / 100kHz)	Rated Ripple (mArms) (150°C / 100kHz)	Part Number
		150	▲ 8×10	0.08	20	40	1800	PCZ1E151MCL6GS
25 (1E)	31	270	10 × 10	0.08	20	40	1800	PCZ1E271MCL1GS
, ,		330	10 × 12.7	0.08	15	30	2100	PCZ1E331MCL1GS
		100	▲ 8 × 10	0.08	22	44	1700	PCZ1V101MCL6GS
35 (1V)	43	180	10 × 10	0.08	20	40	1800	PCZ1V181MCL1GS
		220	10 × 12.7	0.08	16	32	2000	PCZ1V221MCL1GS

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Mouser Electronics

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Nichicon:

PCZ1E151MCL6GS PCZ1V221MCL1GS PCZ1E271MCL1GS PCZ1E331MCL1GS PCZ1V181MCL1GS PCZ1V101MCL6GS