

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,(EU)2015/863).
- ●ESR after Endurance at -40°C.
- AEC-Q200 compliant. Please contact us for details.

High Temperature **PCH**

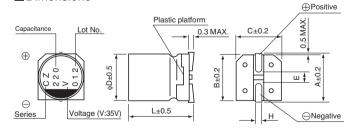


■ Specifications

Item	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 or 3(µA), 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	The default for ever 1200 o temperature at expansion carrage chair		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						
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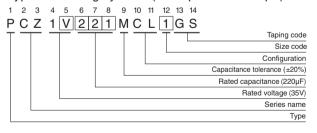
- *1 ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform.
- *2 Conditioning: If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.
- \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 L 9.9		10.0	10.0	
		9.9	12.6	
A 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		



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

Rated ripple current (mArms) at 150°C 100kHz
No marked, 1 will be put at 12th digit of type numbering system.

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

[•] Taping specifications are given in page 23.

[•] Recommended land size, soldering by reflow are given in page 18, 19.

[•] Please refer to page 3 for the minimum order quantity.