



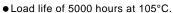








Anti-Solvent Feature



- SMD type : Lead free reflow soldering condition at 260°C peak correspondence.
- Compliant to the RoHS directive (2002/95/EC).

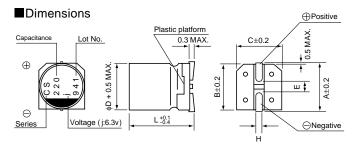




## ■Specifications

Item	Performance Characteristics					
Category Temperature Range	−55 to +105°C					
Rated Voltage Range	4 to 16V					
Rated Capacitance Range	22 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)	$Z+105^{\circ}C / Z+20^{\circ}C \le 1.25$ (100kHz) $Z-55^{\circ}C / Z+20^{\circ}C \le 1.25$					
	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 5000 hours at 105°C.	Capacitance change	Within ± 20% of the initial capacitance value ( * 3)			
F. I		tan δ	150% or less than the initial specified value			
Endurance		ESR ( * 1)	150% or less than the initial specified value			
	applied for 3000 flours at 103 C.	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 60°C, 90% 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	not exceed 60 seconds		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					

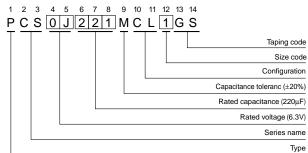
- \* 1 ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform.
- \*2 Conditioning: If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at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



		(mm)
$\phi 5 \times 6L$	φ6.3×6L	φ8×7L
5.0	6.3	8.0
5.9	5.9	6.9
6.0	7.3	9.0
5.3	6.6	8.3
5.3	6.6	8.3
1.6	2.1	3.2
0.5 to 0.8	0.5 to 0.8	0.8 to 1.1
	5.0 5.9 6.0 5.3 5.3 1.6	5.0     6.3       5.9     5.9       6.0     7.3       5.3     6.6       5.3     6.6       1.6     2.1

Voltage					
V	4	6.3	10	16	
Code	g	j	Α	С	

Type numbering system (Example: 6.3V 220µF)







## ■Standard Ratings

Rated Voltage (V)(code)	Surge Voltage (V)	Rated Capacitance (μF)	Case Size φD × L (mm)	tan δ	Leakage Current (μΑ)	ESR (mΩ) (at 100kHz 20°C)	Rated Ripple (mArms)	Part Number
4 (0G)	4.6	150	5×6	0.12	120	25	2200	PCS0G151MCL1GS
		330	6.3×6	0.12	264	20	2800	PCS0G331MCL1GS
		330	• 8×7	0.12	264	22	3200	PCS0G331MCL9GS
		560	8×7	0.12	448	18	3600	PCS0G561MCL1GS
		47	5×6	0.12	100	35	1600	PCS0J470MCL1GS
		100	5×6	0.12	126	25	2400	PCS0J101MCL1GS
		100	● 6.3×6	0.12	126	22	2800	PCS0J101MCL9GS
6.3 (0J)	7.2	120	• 6.3 × 6	0.12	151	22	2800	PCS0J121MCL9GS
(03)		220	6.3×6	0.12	277	20	2800	PCS0J221MCL1GS
		220	● 8×7	0.12	277	22	3200	PCS0J221MCL9GS
		390	8×7	0.12	491	22	3200	PCS0J391MCL1GS
	11.5	33	5×6	0.12	100	40	1300	PCS1A330MCL1GS
		56	● 6.3×6	0.12	112	27	2300	PCS1A560MCL9GS
10		68	5×6	0.12	136	30	2100	PCS1A680MCL1GS
(1A)		120	6.3×6	0.12	240	27	2300	PCS1A121MCL1GS
		150	● 8×7	0.12	300	30	2600	PCS1A151MCL9GS
		270	8×7	0.12	540	22	3200	PCS1A271MCL1GS
16 (1C)	18.4	22	5×6	0.12	100	45	1100	PCS1C220MCL1GS
		39	5×6	0.12	125	35	2000	PCS1C390MCL1GS
		39	● 6.3×6	0.12	125	30	2200	PCS1C390MCL9GS
		68	6.3 × 6	0.12	218	30	2200	PCS1C680MCL1GS
		82	● 8×7	0.12	262	28	2800	PCS1C820MCL9GS
		120	8 × 7	0.12	384	28	2800	PCS1C121MCL1GS

Rated ripple current (mArms) at 105°C 100kHz

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

•: In this case, 9 will be put at 12th digit of type numbering system.

<sup>•</sup> Taping specifications are given in page 23.

<sup>•</sup> Recommended land size, soldering by reflow are given in page 18, 19.

<sup>•</sup> Please refer to page 3 for the minimum order quantity.