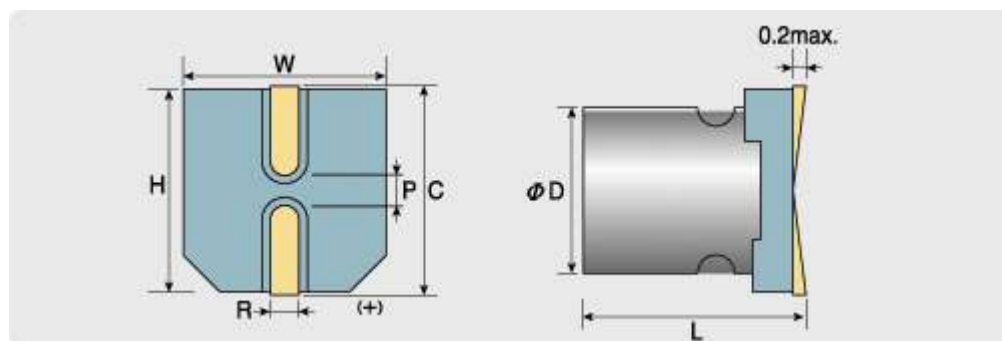


**SCL****Conductive
polymer type****Standard SMD type, Environmental product**

This series has its head resistance substantially improved by using conductive polymer as a solid electrolyte. Use for surface mounted type switching power supplies. The rated ripple current value is assured at 105°C, so that it is not necessary to apply a temperature correction coefficient such as that defined for other series. Can be used with lead-free fellow soldering.



Items	Characteristics		
Operation temperature range	-55~105℃		
Rated working voltage range	2.5~25V.DC		
Nominnal Capacitance range	3.3~1500μF		
Capacitance tolerance	±20%(120Hz/20℃)		
DC leakage current	4 to 25WV:0.1CV 2WV:0.2WV:0.2CV 2.5WV:0.15CV		
Dissipation factor(tanδ)	Value in characteristics table		
E.S.R[100~300kHz]	Value in characteristics table		
Temperature characteristics [impedance ratio, 100kHz]	-55℃	Z/Z20℃	0.75~1.25
	105℃	Z/Z20℃	0.75~1.25
High-temperature load [after 105℃ ,2000hrs, rated voltage applied,25V applied 85℃]	ΔC/C	Within±20%	
	tanδ	1.5 times of initial value	
	L/C	Less than of initial value	
Moisture resistance [after 60℃, 90~95% R.H.,1000hrs,no voltage]	ΔC/C	Within±10% O L	
	tanδ	1.5 times of initial value	
	L/C	Less than of initial value	
Reverse voltage guarantee	less than 10% of the rated voltage		

Dimensions & Size table

(unit:mm)

size	Φ D+0.5	Lmax	W±0.2	H±0.2	C±0.2	R	P±0.2
4.0x5.4	4.0	5.5	4.3	4.3	5.0	0.5~0.8	1.0
5.0x5.9	5.0	6.0	5.3	5.3	6.0	0.5~0.8	1.4
6.3x5.9	6.3	6.0	6.6	6.6	7.3	0.5~0.8	2.1
8.0x6.9	8.0	7.0	8.3	8.3	9.0	0.5~0.8	3.2
8.0x11.9	8.0	12.0	8.3	8.3	9.0	0.5~1.1	3.2
10.0x7.9	10.0	8.0	10.3	10.3	11.0	0.5~0.8	4.6
10.0x12.6	10.0	12.7	10.3	10.3	11.0	0.5~1.1	4.6

CAP/ W.V	2.5	4	6.3	10	16	20	25
3.3					4.0x5.4		
4.7				4.0x5.4			
6.8				4.0x5.4			6.3x5.9
10				4.0x5.4		5.0x5.9	8.0x6.9
15				4.0x5.4	5.0x5.9		
22			4.0x5.4		5.0x5.9	6.3x5.9	10x7.9
27						6.3x5.9	
33		4.0x5.4		5.0x5.9		8.0x6.9	8.0x11.9
39		5.0x5.9			6.3x5.9		
47			5.0x5.9	6.3x5.9		8.0x6.9	
56				6.3x5.9	8.0x6.9	10.0x7.9	10.0x12.6
68		5.0x5.9				10.0x7.9	
82			6.3x5.9		8.0x6.9		
100			6.3x5.9		10.0x7.9	8.0x11.9	
120			6.3x5.9	8.0x6.9			
150		6.3x5.9x6.9		8x6.9,10x7.9	10.0x7.9	10.0x12.6	
180					10x7.9,8x11.9		
220	6.3x5.9		8x6.9,10x7.9				
270				10.0x7.9			
330		8.0x6.9	10.0x7.9	10x7.9,8x11.9	10.0x12.6		
470			10x7.9,8x11.9				
560		8.0x11.9		10.0x12.6			
680	8.0x11.9	10.0x7.9					
820			10.2x12.6				
1200		10.0x12.6					
1500	10.0x12.6						

Chracteristics Table

W.V	Cap (μ F)	PARTNO.	ESR (100~300kHz) (m Ω)(max)	MAX ripple current(mArms) (100kHz/105°C)	tan δ	Leakage current(μ A)
2.5	220	SCL0E221M	23	2390	0.12	110
	680	SCL0E681M	13	4520	0.15	340
	1500	SCL0E152M	12	5440	0.18	750
4	33	SCL0G330M	200	740	0.15	66
	39	SCL0G390M	70	1100	0.12	78
	68	SCL0G680M	60	1400	0.12	136
	150(6.3x5.9)	SCL0G151M	40	1810	0.12	120
	150(8x6.9)	SCL0G151M	35	2560	0.12	120
	330	SCL0G331M	35	2560	0.12	264
	560	SCL0G561M	13	4520	0.12	448
	680	SCL0G681M	25	3700	0.12	544
	1200	SCL0G122M	12	5440	0.18	960
6.3	22	SCL0J220M	200	740	0.12	69.3
	47	SCL0J470M	70	1100	0.12	148
	82	SCL0J820M	45	1700	0.12	103
	100	SCL0J101M	40	1810	0.12	126
	120	SCL0J121M	17	2780	0.12	151
	220(8x6.9)	SCL0J221M	35	2560	0.12	277
	220(10x7.9)	SCL0J221M	25	3700	0.12	277
	330	SCL0J331M	25	3700	0.12	416
	470(10x7.9)	SCL0J471M	25	3700	0.12	592
	470	SCL0J471M	15	4210	0.15	592
	820	SCL0J821M	12	5440	0.15	1033.2
10	4.7	SCL1A4.7M	240	670	0.08	23.5
	6.8	SCL1A6.8M	240	670	0.09	34
	10	SCL1A100M	220	700	0.1	50
	15	SCL1A150M	200	740	0.1	75
	33	SCL1A330M	70	1100	0.12	165
	47	SCL1A470M	50	1620	0.12	94
	56	SCL1A560M	45	1700	0.12	112
	120	SCL1A121M	35	2560	0.12	240
	150(8x6.9)	SCL1A151M	35	2560	0.12	300
	150(10x7.9)	SCL1A151M	30	3020	0.12	300
	270	SCL1A271M	25	3700	0.12	540
	330(10x7.9)	SCL1A331M	25	3700	0.12	660
	330(8x11.9)	SCL1A331M	17	3950	0.15	660
	560	SCL1A561M	13	5230	0.15	1120
16	3.3	SCL1C3.3M	260	660	0.07	26.4
	15	SCL1C150M	120	1020	0.1	120
	22	SCL1C220M	90	1060	0.1	176
	39	SCL1C390M	50	1620	0.1	312
	56	SCL1C56M	45	1890	0.12	448
	82	SCL1C820M	40	2120	0.12	656
	100	SCL1C101M	35	2670	0.12	800
	150	SCL1C151M	30	3020	0.12	1200

	180(10x7.9)	SCL1C181M	30	3020	0.12	1440
	180(8x11.9)	SCL1C181M	20	3640	0.15	1440
	330	SCL1C331M	16	4720	0.15	2640
	10	SCL1D100M	120	1020	0.1	100
	22	SCL1D220M	60	1450	0.1	88
	27	SCL1D270M	60	1450	0.1	108
	33	SCL1D330M	45	1890	0.12	132
	47	SCL1D470M	45	1890	0.12	188
	56	SCL1D560M	40	2400	0.12	224
	68	SCL1D680M	40	2400	0.12	272
	100	SCL1D101M	24	3320	0.15	400
	150	SCL1D151M	20	4320	0.15	600
	6.8	SCL1E6.8M	80	1200	0.1	85
	10	SCL1E100M	60	1500	0.1	125
	22	SCL1E220M	50	2000	0.1	275
	33	SCL1E330M	30	2980	0.12	413
	56	SCL1E560M	28	3800	0.12	700

Frequency coefficient for ripple current

Frequency	120Hz f <1kHz	1Hz f <10kHz	10Hz f <100kHz	100Hz f <500kHz
Coefficient	0.05	0.3	0.7	1