

RADIAL TYPE

TL Series

Long Life, Low Impedance, High Reliability

JAMICON®

WG ← TL → TH

- Low impedance and long life with standing 5000 hours load life.
- Suitable for electronic ballast, adaptor and switching power.

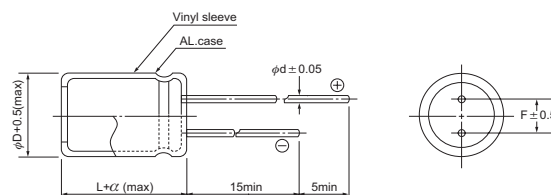


● SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-55 ~ +105°C							
Rated Working Voltage	6.3 ~ 50VDC							
Capacitance Tolerance (120Hz 20°C)	±20%(M)							
Leakage Current (20°C)	$I \leq 0.01CV$ or $3 (\mu A)$				I : Leakage Current (μA)			
	Whichever is greater after 2 minutes				C : Rated Capacitance (μF)			
					V : Working Voltage (V)			
Surge Voltage (20°C)	W.V.	6.3	10	16	25	35	50	
	S.V.	8	13	20	32	44	63	
Dissipation Factor (tan δ) (120Hz 20°C)	Add 0.02 per 1000 μF for more than 1000 μF							
	W.V.	6.3	10	16	25	35	50	
	tan δ	0.22	0.19	0.16	0.14	0.12	0.10	
Low Temperature Stability	Impedance ratio at 120Hz							
	Rated Voltage (V)	6.3	10	16~35	50			
	-25°C / +20°C	2	2	2	2			
	-55°C / +20°C	3	3	3	2			
Load Life	After hours ($\phi 5 \sim 6.3$ mm 2000 hours, $\phi 8$ mm 3000 hours, $\phi D \geq 10$ mm 5000 hours) application of W.V. at +105°C, the capacitor shall meet the following limits.							
	Capacitance Change	$\leq \pm 20\%$ of initial value						
	Dissipation Factor	$\leq 200\%$ of initial specified value						
	Leakage current	\leq initial specified value						
Shelf Life	At + 105°C no voltage application after 1000 hours the capacitor shall meet the following limits. (with voltage treatment)							
	Capacitance Change	$\leq \pm 20\%$ of initial value						
	Dissipation Factor	$\leq 150\%$ of initial specified value						
	Leakage current	$\leq 200\%$ of initial specified value						

● DIMENSIONS (mm)

ϕD	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
α	1.5	1.5	1.5	1.5	1.5	1.5	1.5



● RIPPLE CURRENT COEFFICIENTS

Temperature(°c)	65	75	85	95	105
Multiplier	2.12	1.92	1.69	1.50	1.00

Frequency(Hz)	60	120	400	1K	10K	100K
W.V.	Multiplier					
6.3~16V	0.45	0.60	0.83	0.94	0.98	1.00
25~35V	0.38	0.50	0.75	0.90	0.97	1.00
50V	0.36	0.46	0.70	0.88	0.94	1.00

● CASE SIZE & MAX RIPPLE CURRENT

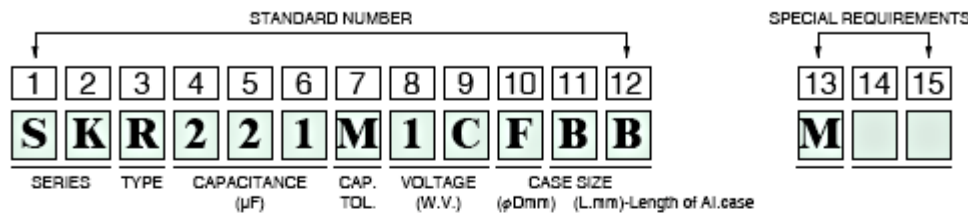
Case size : D x L (mm)
 Max impedance : Ω 100KHz
 Max ripple current : A(rms) 105°C 100KHz

V(Code)		6.3 (0J)				10 (1A)				
μF	Code	Item	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C	
100	101						5x11	0.500	1.250	0.21
220	221		6.3x11	0.308	0.769	0.34	6.3x11	0.249	0.623	0.35
330	331		6.3x11	0.246	0.615	0.42	8x11.5	0.169	0.423	0.51
470	471		8x11.5	0.178	0.446	0.58	8x11.5	0.139	0.346	0.60
680	681		10x12.5	0.081	0.203	0.74	10x12.5	0.077	0.194	0.76
1000	102		8x20	0.066	0.166	1.08	10x16	0.063	0.158	1.03
1200	122		10x16	0.058	0.144	1.09	10x20	0.055	0.137	1.24
1500	152		10x20	0.049	0.123	1.30	10x25	0.047	0.116	1.48
2200	222		10x25	0.038	0.094	1.68	12.5x20	0.036	0.090	1.67
3300	332		12.5x20	0.032	0.079	1.87	12.5x25	0.030	0.075	2.12
4700	472		12.5x30	0.027	0.067	2.47	16x25	0.025	0.051	2.35
6800	682		16x25	0.024	0.048	2.53	16x31.5	0.023	0.045	2.85
10000	103		16x31.5	0.022	0.043	3.00	18x35.5	0.021	0.041	3.43
15000	153		18x35.5	0.020	0.041	3.61	18x40	0.019	0.039	3.85

V(Code)		16 (1C)				25 (1E)				
μF	Code	Item	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C	
47	470		5x11	0.568	1.421	0.15	5x11	0.539	1.348	0.19
68	680		5x11	0.500	1.250	0.18	6.3x11	0.419	1.049	0.26
100	101		6.3x11	0.367	0.918	0.25	6.3x11	0.349	0.871	0.31
220	221		8x11.5	0.190	0.474	0.43	8x11.5	0.180	0.450	0.54
330	331		10x12.5	0.114	0.285	0.55	10x12.5	0.108	0.270	0.70
470	471		10x12.5	0.093	0.233	0.66	10x16	0.088	0.221	0.92
680	681		10x16	0.074	0.184	0.88	10x20	0.070	0.175	1.22
1000	102		10x20	0.060	0.150	1.18	12.5x20	0.057	0.143	1.58
1200	122		10x25	0.052	0.130	1.43	12.5x20	0.050	0.124	1.73
1500	152		12.5x20	0.044	0.111	1.48	12.5x25	0.042	0.105	2.04
2200	222		12.5x25	0.034	0.086	1.91	16x25	0.032	0.065	2.39
3300	332		16x25	0.029	0.057	2.20	16x31.5	0.027	0.054	3.02
4700	472		16x31.5	0.024	0.048	2.67	18x35.5	0.023	0.046	3.70
6800	682		18x35.5	0.022	0.043	3.28				
10000	103		18x40	0.019	0.039	3.67				

V(Code)		35 (1V)				50 (1H)				
μF	Code	Item	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C	
4.7	4R7		5x11	1.912	4.781	0.07	5x11	1.699	5.096	0.08
10	100		5x11	1.498	3.745	0.10	5x11	1.331	3.992	0.11
22	220		5x11	0.817	2.043	0.14	5x11	0.726	2.177	0.16
33	330		5x11	0.636	1.589	0.17	6.3x11	0.564	1.411	0.23
47	470		6.3x11	0.510	1.275	0.24	6.3x11	0.453	1.132	0.27
68	680		6.3x11	0.397	0.991	0.28	8x11.5	0.352	0.880	0.38
100	101		8x11.5	0.330	0.824	0.40	8x20	0.220	0.549	0.59
220	221		10x12.5	0.128	0.319	0.63	10x16	0.113	0.283	0.80
330	331		10x16	0.102	0.255	0.85	10x20	0.091	0.227	1.08
470	471		10x20	0.084	0.209	1.12	12.5x20	0.074	0.186	1.38
680	681		12.5x20	0.066	0.165	1.44	12.5x25	0.059	0.147	1.83
1000	102		12.5x25	0.054	0.135	1.93	16x25	0.048	0.096	2.23
1200	122		12.5x30	0.047	0.117	2.29	16x31.5	0.042	0.083	2.71
1500	152		16x25	0.040	0.079	2.25	16x35.5	0.035	0.071	3.01
2200	222		16x31.5	0.031	0.077	2.88	18x35.5	0.027	0.055	3.69
3300	332		18x35.5	0.026	0.064	3.65	18x40	0.023	0.046	4.35

PARTS NUMBER SYSTEM



Series	Code	Type	Description	CAP (μF)	Code	Tolerance (%)	Code	Voltage (W.V.)	Code	Diameter (φ)	Code	Length (L)	Code	Code	Description
PS	WG	R	Bulk	0.1	DR1	+10	K	4	0G	3	A	11	11	W	Without Sleeve
PC	TL			0.22	R22	-10		6.3	0J	3.6	S	11.5	BB		
CS	TH	P	Taping (Ammo Pack)	0.33	R33	+15	L	10	1A	4	C	12.5	BC	1~9	Customer
CR	TX			0.47	R47	-15		13	1P	5	D	31.5	DB	A~Z	Assign
CT	TA	C	Lead Cut	1	010	+20	M	16	1C	6	W	35.5	DF	a~	Brand
CH	WB			2.2	2R2	-20		20	1D	6.3	E	100	1H		
CL	FS	F	Lead Forming Cut	3.3	3R3	+100	P	25	1E	7	Y	110	1A		
CF	UK			4.7	4R7	-0		35	1V	8	F	115	1K		
CK	NC	B	Lead Forming Only	10	100	+30	Q	40	1G	10	G	120	1B		
SV	RV			22	220	-10		50	1H	12	H	121	1M		
ST	LP	Y	Lead Snap in	33	330	+20	R	63	1J	12.5	I	130	1C		
NT	HP			47	470	-0		80	1K	13	J	131	1P		
SS	LS	W	Snap in Terminal	100	101	+50	T	100	2A	16	K	140	1D		
SH	HS			220	221	-10		125	2B	18	L	144	1Q		
SL	LT	G	G Type Terminal	330	331	+75	U	160	2C	20	M	150	1E		
NS	HT			470	471	-10		180	2M	22	N	155	1N		
SK	HV	V	V Type Terminal	1000	102	+20	V	200	2D	25	O	157	1R		
SM	HL			2200	222	-10		250	2E	30	P	160	1F		
TK	KP	S	Screw Terminal Type	3300	332	+20	H	315	2F	35	Q	170	1G		
TM	RP			4700	472	-5		330	2U	40	R	180	1I		
NK	XP	M	Surface Mount Type	10000	103	+30	F	350	2V	51	V	190	1J		
LK				22000	223	-0		400	2G	64	1	196	1S		
MZ				33000	333	+100	W	450	2W	77	2	215	1L		
WL				47000	473	-10		500	2H	90	3	236	1T		