

TL 超长寿命低阻抗品

- 105℃ , 5000~10000小时, 低阻抗。
- 105℃ , 5000~10000hours, Low impedance .
- 适用于有长寿命要求的电子设备。



Used in electronic equipments whose long life would be required

Specifications

项目 Items	特性 Characteristics										
工作温度范围 Operating temperature range	-55℃~+105℃										
额定电压范围 Rated voltage range	6.3V~100V DC										
静电容量范围 Nominal capacitance toletance	5.6 μ F~18000 μ F										
静电容量误差 Capacitance toletance	±20% (120Hz:20℃)										
漏电流 (20℃) leakage current(20℃)	I≤0.01CV or 3 μ A(whichever is greater) after 2 minute										
	I: Leakage current C: Normanal capacitance V: Rated voltage										
损耗角正切 Dissipation factor (120Hz:20℃)	Rated voltage(V)	6.3	10	16	25	35	50	63	100	删除	
	tgδ(MAX)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08		
	When capacitance is more than1000 μ F, tg δ will add 0.02 per 1000 μ F addition.										
低温特性 Low temperature characteristics (Impedance ratio max. at 120Hz)	Rated voltage(v)	6.3	10	16	25	35	50	63	100	删除	
	Z—25℃/Z+20℃	4	3	2	2	2	2	2	2		
	Z—55℃/Z+20℃	8	6	4	3	3	3	3	3		
高温负荷特性 Load Life	After applying rated for 5000~10000 hours at 105℃ then resumed 16 hours:										
	ΦD	5~6.3		8		10		≥13			
	Load life	5000h		6000h		8000h		10000h			
	Capacitance change	Within ±20% of the initial measured value									
	tgδ	≤200% of the initial specified value									
	Leakage current	≤initial specified value									
高温贮存特性 Shelf Life	After storage for 1000 hours at 105℃ then resumed 16 hours:										
	Capacitance change	Within ±20% of the initial measured value									
	tgδ	≤200% of the initial specified value									
	Leakage current	≤initial specified value									

Diagram of Dimensions(mm)

	φD	5	6.3	8	10	13	16	18
	F±0.5	2.0	2.5	3.5	1.5	2.0	2.5	3.5
	φd±0.05	0.5	0.5	0.5	0.6	0.6	0.8	0.8
	α	1.0	1.0	1.0	1.5	1.5	2.0	2.0

Multiplier for Ripple Current vs. Frequency:

CAP(μF)\Hz	50(60)	120	1K	10K	100K
CAP<100	0.45	0.55	0.75	0.90	1.00
100≤CAP<1000	0.60	0.70	0.85	0.95	1.00
CAP≥1000	0.70	0.80	0.95	0.98	1.00

Multiplier for Ripple Current vs. Temperature:

Temperature℃	~55	60	70	85	105
Factor	2.23	2.17	2.00	1.75	1.00

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Standard Ratings

WV(Coad)		6.3V(0J)			10V(1A)			16V(1C)			25V(1E)		
C(uf)	Coad	φD×L	R.C.	IMP	φD×L	R.C.	IMP	φD×L	R.C.	IMP	φD×L	R.C.	IMP
47	470							5x11	170	0.5	5x11	175	0.490
100	101				5x11	170	0.500	6.3x11	295	0.25	6.3x11	295	0.250
150	151	5x11	170	0.500							6.3x15	420	0.180
220	221				6.3x11	390	0.240	6.3x15	410	0.17	8x12	650	0.120
330	331	6.3x11	390	0.240	6.3x15	400	0.180	8x12	660	0.120	8x16	750	0.090
390	391										10x13	770	0.090
470	471	6.3x15	400	0.180	8x12	650	0.120	8x20	830	0.080	8x20	820	0.079
560	561							8x16	740	0.089	10x16	1060	0.067
680	681	8x12	655	0.120	8x12	650	0.120	10x13	770	0.090	10x16	1070	0.067
820	821	10x13	860	0.091	8x16	830	0.090	10x13	860	0.090	10x16	1070	0.067
1000	102	8x16	830	0.091	8x20	1010	0.080	10x16	1250	0.067	10x20	1270	0.052
1200	102	8x20	1060	0.082	10x20	1420	0.052	10x20	1420	0.052	10x25	1450	0.045
1500	152	10x20	1420	0.051	10x16	1250	0.067	10x20	1420	0.052	10x25	1450	0.045
1800	182				10x20	1420	0.052	10x25	1450	0.045	10x30	1700	0.036
2200	222	10x25	1640	0.044	10x25	1640	0.044	13x21	1650	0.038	13x21	1670	0.037
2700	272	10x30	1930	0.038	13x21	1650	0.038	13x25	1970	0.030	13x25	1970	0.030
3300	332	13x21	1650	0.037	13x25	1960	0.030	13x30	2330	0.024	13x30	2330	0.024
3900	392	13x25	1960	0.030	13x30	2320	0.024	16x21	2230	0.028	16x21	2230	0.028
4700	472	13x30	2320	0.024	13x35	2520	0.022	16x25	2570	0.022	16x25	2570	0.022
5600	562	13x35	2520	0.021	16x21	2230	0.028	18x21	2490	0.028	18x21	2490	0.028
6300	632				13x35	2520	0.021	13x40	2880	0.017	13x40	2880	0.017
6800	182	16x21	2230	0.028	16*25	2570	0.022	16x36	3160	0.017	16x36	3160	0.017
8200	822	16x21	2230	0.028	18*21	2490	0.027	18x32	3350	0.017	18x32	3350	0.017
10000	103							16x40	3720	0.014	16x40	3720	0.014
12000	123	13x40	2880	0.017	16x32	3020	0.018	18x32	3670	0.016	18x32	3670	0.016
15000	153	16x25	2570	0.022	18x25	2750	0.020	18x36	3670	0.016	18x36	3670	0.016
18000	183	18x21	2490	0.027	16x36	3150	0.017	18x40	3810	0.015	18x40	3810	0.015
		18x25	2750	0.020	18x36	3670	0.016						
		16x36	3150	0.016	18x36	3670	0.016						
		18x32	3340	0.017	18x40	3810	0.015						
		18x25	2750	0.020									
		16x40	3720	0.015									
		18x36	3670	0.016									
		18x40	3810	0.015									

Permit ripple current : (mArms, 105°C, 100KHZ);

Case size: φD×L (mm)

Permit impedance : (Ω, 20°C, 100KHZ)

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Standard Ratings

WV(Coad)		35V(1V)			50V(1H)			63V(1J)			100V(2A)		
C(uf)	Coad	φD×L	R.C.	IMP	φD×L	R.C.	IMP	φD×L	R.C.	IMP	φD×L	R.C.	IMP
5.6	5R6										5x11	90	2.000
12	120							5x11	145	1.800	6.3x11	120	1.200
18	180										6.3x15	200	0.620
22	220				5x11	165	0.900	6.3x11	250	1.000	8x12	250	0.540
27	27										10x13	350	0.480
33	330	5x11	185	0.490							8x16	320	0.360
39	390										10x16	460	0.340
47	470				6.3x11	270	0.440				8x20	450	0.280
56	560	6.3x11	300	0.250							10x20	580	0.270
68	680				6.3x15	370	0.310	8x12	410	0.340	10x25	760	0.200
100	101	6.3x15	410	0.170	8x12	490	0.210	8x16	540	0.260	10x30	910	0.160
								10x13	550	0.254	13x21	840	0.160
120	121				8x16	640	0.160	10x16	620	0.190	13x25	1010	0.120
					10x13	630	0.150						
150	151	8x12	625	0.120				8x20	690	0.210			
180	181				8x20	740	0.120	10x20	890	0.144	13x30	1220	0.095
					10x16	860	0.130				16x21	1200	0.120
220	221	8x16	740	0.090	10x20	1060	0.087	10x25	1060	0.130	13x35	1420	0.088
		10x13	770	0.090							16*25	1400	0.082
270	271	8x20	820	0.079							13x40	1600	0.060
											18x21	1400	0.085
330	331	10x16	1060	0.067	10x25	1260	0.073	10x30	1310	0.090	16x32	1740	0.059
								13x21	1290	0.084	18x25	1610	0.070
390	391				10x30	1520	0.054	13x25	1730	0.070	16x36	1950	0.053
					13x21	1490	0.058				18x32	1820	0.059
470	471	10x20	1230	0.052				13x30	2100	0.054	16x40	2100	0.042
								16x21	1780	0.058			
560	561	10x25	1450	0.044	13x25	1850	0.044				18x36	1940	0.053
680	681	10x30	1700	0.037	13x30	2230	0.038	13x35	2280	0.046	18x40	2320	0.042
		13x21	1670	0.038	16x21	1850	0.047	16*25	2170	0.050			
								18x21	2300	0.054			
820	821				13x35	2300	0.033	13x40	2570	0.042			
					18x21	1990	0.042	16x32	2680	0.042			
								18x25	2690	0.042			
1000	102	13x25	1960	0.030	13x40	2510	0.029	16x36	2780	0.035			
					16*25	2250	0.034						
1200	122	13x30	2320	0.024	16x32	2710	0.027	16x40	2360	0.030			
		16x21	2220	0.028	18x25	2020	0.028	18x32	2960	0.032			
1500	152	13x35	2520	0.022	16x36	2810	0.025	18x36	3120	0.030			
1800	182	13x40	2880	0.016	16x40	3210	0.020	18x40	3220	0.025			
		16*25	2570	0.022	18x32	3010	0.025						
		18x21	2510	0.027									
2200	222	16x32	3020	0.018	18x36	3110	0.022						
		18x25	2750	0.020									
2700	272	16x36	3160	0.017	18x40	3410	0.020						
		18x32	3340	0.018									
3300	332	16x40	3720	0.015									
		18x36	3690	0.016									
3900	392	18x40	3810	0.015									

Permit ripple current : (mArms, 105°C , 100KHZ);

Case size: φ D×L (mm)

Permit impedance : (Ω , 20°C , 100KHZ)