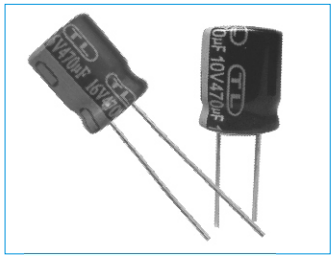
ULF High Temperature Rang,For 125℃ Use Series



- Operating temperature range:~40℃ to 125℃
- Load life of 1000 to 2000 hours at 125℃
- For autombile modules and other high temperature applications

CD81 ⟹ ULF
High temp.

Specifications

Item	Characteristics
Operating Temperature Range	–40℃ ~ +125℃
Rated Voltage Range	10V~63V
Nominal Capacitance Range	0.47 μ F~1000 μ F
Capacitance Tolerance	M (± 20%) (20℃,120Hz)
Leakage Current	I ≤ 0.03$C_R U_R$ or 4(μ A),whichever is greater. C_R:Nominal capacitance (μ F) V_R:Rated voltage(V) (20℃, after 2 minutes)

Dissipation Factor (Max)

U_R (V)	10	16	25	35	50	63
tan δ	0.15	0.12	0.10	0.10	0.08	0.08

(20℃,120Hz)

Low Temperature Stability (Impedance Ratio)

U_R (V)	10	16	25	35	50	63
Z(–25℃) / Z(+20℃)	3	2	2	2	2	2
Z(–40℃) / Z(+20℃)	6	4	4	4	4	4

Load Life

After 1000 (Φ 10 × 12.5 and smallar) or 2000 (Φ 10 × 16 and larger)hour'application of rated voltage at 125℃, the capacitors shall meet the following requirement:

Capacitance change	Within ± 20% of the initial value .
Dissipation factor	Not more than 200% of the initial specified value.
Leakage current	Not more than the initial specified value.

Shelf Life

After storage for 1000 hours at +125℃,the capacitors shall meet the requirement of load life above .

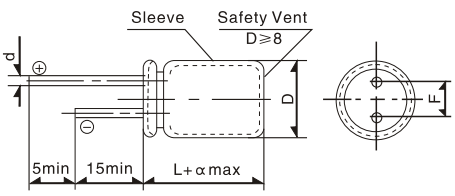
Rated Ripple Current & Frequency Multipliers

Cap. \ Freq.	50Hz	120Hz	500Hz	1kHz	10kHz~
0.47 μ F~47 μ F	0.8	1.0	1.2	1.3	1.5
100 μ F~1000 μ F	0.8	1.0	1.1	1.15	1.2

Rated Ripple Current & Temperature Multipliers

Temperature	+85℃	+105℃	+125℃
Multipliers	2.5	1.60	1.00

Dimensions



(mm)

D 1.0	8	10			12.5		16
L	11.5	12.5	16	20	20	25	20
d ± 0.1	0.6	0.6			0.6		0.8
F ± 0.5	3.5	5.0			5.0		7.5
α	1.5			2.0			

ULF Series

■ Nominal capacitance,rated voltage,rated ripple current and case size table

U_R(V) / Item / C_R(μF)	10		16		25		35		50		63	
	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~
0.47									8×11.5	12	8×11.5	12
1.0									8×11.5	17	8×11.5	17
2.2									8×11.5	26	8×11.5	26
3.3									8×11.5	32	8×11.5	32
4.7									8×11.5	38	8×11.5	38
10									8×11.5	56	8×11.5	56
22							8×11.5	75	10×12.5	99	10×12.5	99
33					8×11.5	92	10×12.5	108	10×16	133	10×16	133
47			8×11.5	100	10×12.5	129	10×16	142	10×16	159	10×20	173
100	10×12.5	154	10×16	190	10×16	208	10×20	225	12.5×20	279	12.5×20	279
220	10×16	252	10×20	305	12.5×20	371	12.5×25	403	16×20	459		
330	10×16	308	12.5×20	414	12.5×25	493	16×20	503				
470	10×20	399	12.5×25	537	16×20	601						
1000	16×20	715	↑ Rated ripple current (mA rms) (125℃,120Hz)									