



LUK High Temperature, 125°C



Features

- The series has guaranteed operating life of 1000~2000hours at 125°C widest operating Temperature range, -40 to +125°C
- Applications: High reliability equipment, filtering circuit of switching power supply, and Industrial control equipment.

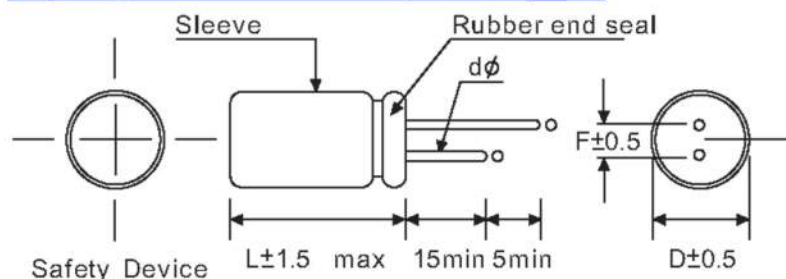
Specifications

Item	Performance Characteristics																															
Operating Temperature Range	-40 to +125°C	-25 to +125°C																														
Rated voltage Range	10 to 100 VDC	160 to 350 VDC																														
Capacitance Range	0.47 to 1000 µF	1 to 100 µF																														
Capacitance Tolerance	±20%(120Hz, +20°C)																															
Leakage Current (+20°C, max.)	I ≤ 0.01 CV or 3(µA) After 1minute whichever is greater measured with rated working voltage applied.	I ≤ 0.02 CV After 1minute whichever is greater measured with rated working voltage applied.																														
Dissipation Factor (tanδ)	<table border="1"> <thead> <tr> <th>Working Voltage (VDC)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> </tr> </thead> <tbody> <tr> <td>D.F.(%)max</td> <td>18</td> <td>15</td> <td>13</td> <td>12</td> <td>10</td> <td>8</td> <td>7</td> <td>7</td> <td>8</td> <td>10</td> <td>12</td> </tr> </tbody> </table>		Working Voltage (VDC)	10	16	25	35	50	63	100	160	200	250	350	D.F.(%)max	18	15	13	12	10	8	7	7	8	10	12						
	Working Voltage (VDC)	10	16	25	35	50	63	100	160	200	250	350																				
D.F.(%)max	18	15	13	12	10	8	7	7	8	10	12																					
For Capacitance > 1000µF , add 2% per another 1000µF (+20°C, at 120Hz)																																
Low Temperature Characteristics (120Hz)	Impedance ratio max.																															
	<table border="1"> <thead> <tr> <th>Working Voltage</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160~250</th> <th>350~450</th> </tr> </thead> <tbody> <tr> <td>Z (-25°C)/Z(+20°C)</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>6</td> </tr> <tr> <td>Z (-40°C)/Z(+20°C)</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>-</td> <td>-</td> </tr> </tbody> </table>		Working Voltage	10	16	25	35	50	63	100	160~250	350~450	Z (-25°C)/Z(+20°C)	3	2	2	2	2	2	2	3	6	Z (-40°C)/Z(+20°C)	4	4	4	4	4	4	4	-	-
	Working Voltage	10	16	25	35	50	63	100	160~250	350~450																						
Z (-25°C)/Z(+20°C)	3	2	2	2	2	2	2	3	6																							
Z (-40°C)/Z(+20°C)	4	4	4	4	4	4	4	-	-																							
For Capacitance Value 1000µF , add 0.5 per another 1000µF for -25°C/+20°C add 1 per another 1000µF for -40°C/+20°C																																
Load Life	Test conditions Duration time : 1000~2000Hrs Ambient temperature:+125°C Applied voltage: Rated DC working voltage After test requirements:at+20°C After test requirements:±20% of the initial measured value Dissipation Factor: ≤300% of the initial specified value Leakage current: ≤The initial specified value																															
Shelf Life	Test conditions Duration time :1000Hrs Ambient temperature:+125°C Applied voltage: None After test requirements at +20°C: Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.																															

Multiplier for Ripple Current VS, Frequency

CAP(µF)/Hz		50(60)	120	400	1K	10K	50-100K
Multiplier	CAP ≤ 10	0.8	1.0	1.30	1.45	1.65	1.70
	10 < CAP ≤ 100	0.8	1.0	1.23	1.36	1.48	1.53
	100 < CAP ≤ 1000	0.8	1.0	1.16	1.25	1.35	1.38
	1000 < CAP	0.8	1.0	1.11	1.17	1.25	1.28

Diagram of Dimensions: (Unit: mm)



Dφ	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
dφ	0.5		0.6		0.8		



LUK High Temperature, 125°C

Case Size

φD x L (mm)

μF	W.V. {S.V.}	10 {13}		16 {20}		25 {32}		35 {44}		50 {63}		63 {79}	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4.7		-	-	-	-	-	-	-	-	-	-	6.3x11	38
10		-	-	-	-	-	-	-	-	6.3x11	48	8x11	55
22		-	-	-	-	6.3x11	70	6.3x11	82	6.3x11 8x11	75 88	8x11	93
33		-	-	6.3x11	91	6.3x11	100	8x11	108	8x11	122	8x11 10x12	110 132
47		5x11	92	6.3x11	110	6.3x11 8x11	110 130	8x11 10x12	130 158	8x11 10x12	140 164	10x12 10x15	150 172
100		6.3x11	145	6.3x11 8x11	175 206	8x11 10x12	210 250	10x12 10x15	230 262	10x15 10x20	250 277	10x15 10x20	260 295
220		8x11	330	8x11 10x12	340 400	10x12 10x15	420 470	10x15 10x20	480 540	10x25 13x21	560 587	13x21 13x26	540 595
330		8x11 10x12	340 410	10x12 10x15	470 525	10x15 10x20	570 631	10x25 13x21	680 718	13x21 13x26	810 900	13x26 16x26	880 1000
470		10x12 10x15	505 525	10x15 10x20	650 720	10x25 13x21	770 810	13x21 13x26	810 900	13x26 16x26	900 1000	-	-
1000		10x15 10x20	870 960	10x25 13x21	950 1000	13x26 16x26	970 1100	16x26 16x31	1080 1200	-	-	-	-

•Ripple Current (mA, rms) at 125°C 120Hz

μF	W.V. {S.V.}	100 {125}		160 {200}		200 {250}		250 {300}		350 {400}	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47		6.3x11	14	-	-	-	-	-	-	-	-
1		6.3x11	24	6.3x11	30	6.3x11	36	6.3x11	41	8x11	45
2.2		6.3x11	31	6.3x11	37	6.3x11	43	6.3x11 8x11	42 50	8x11 10x12	47 55
3.3		6.3x11	36	6.3x11 8x11	37 41	8x11	48	8x11 10x12	50 53	10x12 10x15	55 60
4.7		6.3x11 8x11	38 45	8x11	52	8x11 10x12	50 60	10x12 10x15	60 68	10x15 10x20	68 75
10		8x11 10x12	60 70	8x11 10x12	70 82	10x12 10x15	80 88	10x15 10x20	83 92	10x25 13x21	105 110
22		10x12 10x15	90 100	10x15 10x20	115 128	10x25 13x21	125 135	13x21 13x26	145 160	13x26 16x26	160 180
33		10x15 10x20	140 158	10x25 13x21	155 164	13x21 13x26	155 172	13x26 16x26	164 185	16x26 16x31	180 200
47		10x25 13x21	175 185	13x21 13x26	180 200	13x26 16x26	190 215	16x26 16x31	205 230	16x31 16x36	230 245
100		13x26 16x26	270 310	13x26 16x26	320 365	16x26 16x31	360 400	-	-	-	-

•Ripple Current (mA, rms) at 125°C 120Hz

RADIAL