Jackcon Capacitor Electronics

LHK General Purpose, 105℃

Features



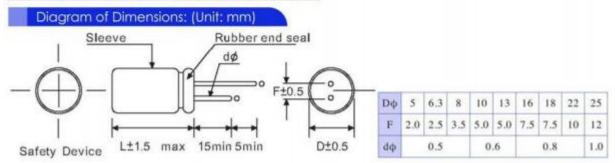
•Used in communication equipments, switching power supply, etc.

•Safety vent construction design

Item			Pe	rfor	nan	ce	Cha	racte	risti	ics						
Operating Temperature Range	-40 to	Performance Characteristics -40 to +105°C -25 to +105°C 6 3 to 100 VDC 160 to 450 VDC														
Rated voltage Range	6.3 to	6.3 to 100 VDC 160 to 450 VDC 0.1 to 15000 μF 0.47 to 470 μF											8			
Capacitance Range	0.1 to	0.1 to 15000 μF 0.47 to 470 μF														
Capacitance Tolerance	±20%(120Hz, +20°C)															
Leakage Current (+20°C, max.)																
Dissipation Factor (tanð)	Working Voltage (VDC)			16	25	-	35	Contraction of	63	2.0.0	160	200		1000		
	D.F.(%)max 23 20 16 14 12 10 10 15 15 16 20 20 20 For Capacitance > 1000 μF , add 2% per another 1000 μF (+20°C, at 120Hz) - - - - - - - - - - - 20 20 20															
Low Temperature Characteristics (at 120Hz)	Impedance ratio max.															
	Working Voltage (VDC) (6.3 10	16	2	5	35	50	63	100	160	200	250	350	400	450
	Z (-25°C)/Z(+20°C)		4 3	2	2		2	2	2	2	3	3	3	5	6	15
	Z (-40°C)/Z(+20°C)		8 6	4	4	1	3	3	3	3	-	-				18
	For Capacitance Value 1000 μ F , add 0.5 per another 1000 μ F for -25°C/+20°C For Capacitance Value 1000 μ F , add 1 per another 1000 μ F for -40°C/+20°C															
Load Life	Test conditions Duration time : 2000Hrs Ambient temperature:+11 Applied voltage: Rated I After test requirements:a After test requirements:a Dissipation Factor: ≤200 Leakage current: ≦The in	05° OC 1(+2 5±2)%	workin 20°C 20% of of the	the	initi al sp	al	ifie			lue						
Shelf Life	Test conditions Duration time :1000Hrs Ambient temperature:+1 Applied voltage: None After test requirements a Pre-treatment for measur application of DC worki	it +	20°C: ients s	hall I	ne ci	on	duct	ed at		e.						

Mult	iplier for Ripple	Curren	nt VS	, Fred	quen	су	
CA	P(µF)/Hz	50(60)	120	400	1K	10K	50-100K
	CAP≦10	0.8	1.0	1.30	1.45	1.65	1.70
Madalation	10 <cap≦100< td=""><td>0.8</td><td>1.0</td><td>1.23</td><td>1.36</td><td>1.48</td><td>1.53</td></cap≦100<>	0.8	1.0	1.23	1.36	1.48	1.53
Multiplier	100 <cap≤1000< td=""><td>0.8</td><td>1.0</td><td>1.16</td><td>1.25</td><td>1.35</td><td>1.38</td></cap≤1000<>	0.8	1.0	1.16	1.25	1.35	1.38
	1000 <cap< td=""><td>0.8</td><td>1.0</td><td>1.11</td><td>1.18</td><td>1.25</td><td>1.28</td></cap<>	0.8	1.0	1.11	1.18	1.25	1.28

Multiplier for	Rippie	Collei	11 YO, 10	emper	aiure
Temperature (°C)	45	60	70	85	105
Multiplier	2.10	1.90	1.65	1.40	1.00



Case Size

φD x L (mm)

W.V. {S.V.}		.3 8}		10 13}		6 20}		15 32}		5 4}
F	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Rippl
1				*	5x11	9	5x11	9	5x11	11
4.7	-				-	>	5x11	27	5x11	29
6.8						>	5x11	35	5x11	38
10					5x11	38	5x11	40	5x11	42
22		>	5x11	50	5x11	56	5x11	60	5x11	62
33	5x11	56	5x11	60	5x11	65	5x11	70	5x11	78
47	5x11	68	5x11	72	5x11	100	5x11	105	5x11 6.3x11	110 115
68	5x11	77	5x11	82	5x11	105	6.3x11	120	6.3x11	140
10.02.0	50.000	1.000	1.00303	0.53510	5x11	115	5x11	135	6.3x11	165
100	5x11	98	5x11	110	6.3x11	135	6.3x11	150	8x11	180
				-	8x11	165	8x11	175	8x14	190
							6x11	230	8x11 8x14	300
220	5x11	160	5x11	170	6.3x11	220	8x11	240	8x16	325 330
220	6.3x11	180	6.3x11	180	8x11	230	10x12	285	8x20	350
							COUNTRE-		10x12	330
			6.3x11	260			8x11	350	10x12	410
330	6.3x11	200	8x11	280	8x11	300	8x14	352	10x12	420
							10x12	355		
					8x11	380	8x14	415	8x20	500
470	6.3x11	280	6.3x11	300	8x14	390	10x12	445	10x12 10x15	460 470
410	8x11	310	8x11	315	10x12	400	10x15	450	10x17	480
					- Charles and -	100000	10x20	465	10x20	520
560	8x11	320	8x11	330	10x12	410	10x15	460	10x17 13x14	540 500
			8x11	400	1. 1. 1.	16245	10x12	450	TRUCKING OF	20030
680	8x11	360	8x14	410	8x14	470	10x15	520	10x20	650
		24,54,54	10x12	420	10x12	480	10x17	600	13x21	750
820	8x11	390	10x12	480	10x15	550	10x15	640	10x20	760
			0.11	100	8x16	570	10.10	740	10x20	810
		13087	8x11 8x14	490 500	8x20 10x12	595 580	10x15 10x17	740 800	10x25 13x14	870 850
1000	8x11	420	8x16	530	10x12 10x13	590	10x17	850	13x14 13x16	860
1000	10x12	460	10x12	530	10x15	600	13x16	850	13x21	880
			10x15	580	10x17	630	13x21	900	13x26	910
1 1 1 1			10.10		10x20	640			16x16	910
1500	10x15	620	10x17	770	10x20	820	13x21	910	13x26	970
				1.0000	10x20	980	10x25	1180	13x26	1260
2200	10x17	780	10x17	870	13x16	980	13x21	1210	16x21	1290
2200	10x20	800	10x20	900	13x21	1020	13x26 16x16	1250 1270	16x26 16x31	1300 1400
					13x26	1060	16x26	1290	18x17	1280
2700	10x20	850	13x21	920	13x21	1100	16x26	1330	16x31	1500
	10,20	070	10-25	1110	13x21	1220	16x26	1480	16x31	1620
3300	10x20 13x21	970 1010	10x25 13x21	1110 1160	13x26	1240	16x31	1540	16x36	1680
	Contast.	1010	10461	1100	16x16	1220	18x17	1450	18x36	1720
1705	10x25	1160	13x21	1360	13x26	1450	10.01	1000	10.04	
4700	13x21	1200	13x26	1380	16x26 18x17	1620 1560	16x31	1800	18x36	1900
					and the second s					
5600	13x26	1320	16x26	1510	16x31 18x19	1720 1660	16x36	1890	18x36	2000
6800	16x26	1470	16x26 16x31	1680 1800	16x31	1880	18x36	2040	18x41	2090
8200	16x26	1520	16x31	1840	16x36	1950	18x36	2090	22x42	2180
	16x26	1690	16x36	1900	18x36	2060	18x41	2160	18x41	2200
10000	16x31	1740	18x36	1980	18x41	2080	22x42	2200	25x44	2300
	16x36	2080								

•Ripple Current (mA, rms) at 105°C 120Hz

W.V.		0 3}	6(7			00 25}		50 00}	20	00
F {S.V.}	Size	Ripple	Size	Ripple	{1: Size	Ripple	Size	Ripple	Size	Ripple
0.1	5x11	1.3	5x11	1.3	5x11	1.3		-		-
0.22	5x11	2.9	5x11	2.9	5x11	2.9	1 2	-	14	
0.33	5x11	4.2	5x11	4.2	5x11	4.2				
0.47	5x11	8	5x11	8	5x11	8	5x11	12	5x11	12
1	5x11	14	5x11	14	5x11	15	5x11	17	6.3x11	17
2.2	5x11	20	5x11	21	5x11 6x11	22 24	6.3x11	26	6.3x11	33
3.3	5x11	26	5x11	28	5x11	30	6.3x11	32	6.3x11	43
4.7	5x11	32	5x11	34	5x11	36	6.3x11 8x11	36 42	8x11	51
6.8	5x11	40	5x11	42	6.3x11	47	8x11	56	10x12	63
10	5x11 6x11	50 55	5x11	51	6.3x11	60	8x11 10x12	75 78	10x12 10x15	83 90
22	5x11	75	5x11 6.3x11	75 85	6.3x11 8x11	98 105	10x15	105	10x20	135
33	5x11 6.3x11	90 95	6.3x11 8x11	105 115	8x11 10x12	145 155	10x20	170	13x21	180
47	6.3x11	120	6.3x11 8x11	145 155	10x12 10x15	170 180	13x21	210	13x21 13x26	220 230
68	8x11	155	8x11	185	10x15 10x17	240 250	13x26	280	16x26	300
100	8x11	200	8x11 10x12	220 240	10x15 10x20	250 270	13x26 16x26	320 330	16x26	360
220	8x16 10x12 10x15 10x17	355 350 360 365	10x17 10x20	400 430	13x26 16x26	530 560	16x36	580	18x36	590
330	10x15 10x17 10x20	435 450 470	10x20 13x21	500 570	16x26	680	18x32	710	18x32 18x36	590 740
470	10x20 13x21	590 610	13x21 13x26 16x26	640 700 720	16x26 16x31	840 860	18x36 18x41	870 880	22x42	890
560	13x21	660	13x26	770	16x36	880	*	-		-
680	13x21 13x26	730 770	16x26	880	16x36	920				- 1
820	13x26	850	16x26	920	18x32	970				+:
1000	13x26 16x21 16x26	900 950 1010	16x26 16x36	1150 1220	18x41	1250	8	5	-	-
1500	16x31	1300	18x32	1350	22x42	1500			-	22
2200	16x26 16x31 18x36	1400 1450 1550	18x36 22x42	1590 2100	25x44	1880	-		-	÷
2700	18x36	1610	22x42	1720				-		-
3300	18x36	1780	22x42	1900			-	-	-	-
4700	22x42	2050	25x44	2200						
5600	25x44	2160	- 25			141	-	12		1.27
6800	25x44	2280	-	-		-		-	•	- 1
10000	25x44	2800							-	-

•Ripple Current (mA, rms) at 105°C 120Hz

Case Size

φD x L (mm)

W.V. {S.V.}		50 00}		50 00}		00 50}	450 {500}		
μF	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	
0.47	5x11	12	6.3x11	15	6.3x11	15	6.3x11	15	
1	6.3x11	17	6.3x11	20	6x11 8x11	20 22	8x11	22	
2.2	6x11 8x11	35 36	10x12	39	8x11 10x12	35 39	10x12 10x17	39 50	
3.3	8x11	43	10x12	53	10x12 10x15	53 55	10x15 10x20	53 55	
4.7	8x11 10x12	48 51	10x12 10x15	63 66	8x11 8x14 10x12 10x15 10x17 10x20	60 63 63 69 70 72	10x20	64	
6.8	10x12	70	10x15	79	10x15	85	10x20	75	
10	10x15	90	10x20	110	10x12 10x15 10x17 10x20 13x21	98 100 110 112 115	13x21 13x26 16x26	92 98 98	
22	10x20 13x21	115 160	13x26	180	13x21 16x26	170 190	16x26 16x31	175 180	
33	13x21 13x26	175 180	16x26	190	13x26 16x16 16x21 16x26	200 200 210 220	16x36	210	
47	13x26 16x26	240 260	16x31	250	16x26 16x31 16x36 18x21	280 300 350 270	16x26 16x36	250 280	
68	16x26	320	16x31	330	16x31 16x36 18x26	340 355 350	18x31 18x36	320 330	
100	16x31	400	18x36	420	18x31 18x36	435 450	18x36 22x32	430 500	

•Ripple Current (mA, rms) at 105°C 120Hz