

LHD

Series

Ultra Low ESR



- 105°C 2,000 hours
- Solvent proof (within 2 minutes)

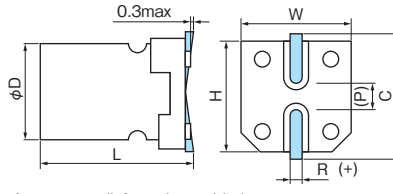
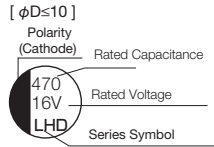
LHD
 ↑ Small, High Capacitance
 RT

Specifications

Items	Condition	Specifications						
Rated voltage (V)	—	6.3	10	16	25	35	50	
Surge voltage (V)	Room temperature	8.0	13	20	32	44	63	
Category temperature range (°C)	—	-55 to +105						
Capacitance tolerance (%)	120Hz/20°C	M : ±20						
Dissipation Factor(tan δ)	tanδ(max) 120Hz/20°C	φ4 to φ6.3	0.26	0.19	0.16	0.14	0.12	0.10
		φ8 to φ10	0.26	0.22	0.20	0.16	0.14	0.12
Leakage current(LC)	μA/after 2minutes (max)	Exceeding 1,000μF, +0.02 every 1,000μF						
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-25°C Z/Z _{20°C}	4	3	2	2	2	2
		-55°C Z/Z _{20°C}	8	5	4	3	3	3
Endurance	105°C 2,000hours rated voltage applied (With the rated ripple current)	Test	6.3V.DC : 2,000hours, φ8×10.5 and φ10×10.5 : 2,000hours					
		ΔC/C	Within ±30% of the initial value					
		tanδ	Less than 300% of the specified value					
		LC	Less than the specified value					

Marking, Dimensions

Black print on the case top



A pressure relief vent is provided for φD=8 or bigger
 (P)reference size

(Unit : mm)

D±0.5	L	W±0.2	H±0.2	C±0.2	R	P±0.2
4	5.4±0.4	4.3	4.3	5.1	0.5 to 0.8	1.0
5	5.4±0.4	5.3	5.3	6.1	0.5 to 0.8	1.3
6.3	5.4±0.4	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	7.7±0.4	6.6	6.6	7.3	0.5 to 0.8	2.2
8	6.5±0.5	8.3	8.3	9.2	0.7 to 1.2	3.1
8	10.5±0.5	8.3	8.3	9.2	0.7 to 1.2	3.1
10	10.5±0.5	10.3	10.3	11.2	0.7 to 1.2	4.4

Ripple Current Frequency Coefficient

Frequency:F(Hz)		100≤F<1k	1k≤F<10k	10k≤F<100k	100k≤F
Capacitance:C(μF)	C≤ 100	1.00	1.30	1.50	1.80
	100<C≤ 330	1.00	1.20	1.30	1.45
	330<C	1.00	1.10	1.20	1.30

Size, Impedance, Rated Ripple Current

μF \ V	6.3		10		16		25		35		50	
10											4×5.8	85
											5×5.8	165
22							4×5.8	160	4×5.8	160	5×5.8	165
33							4×5.8	160	5×5.8	240		
47					4×5.8	160	5×5.8	240	5×5.8	240	6.3×5.8	195
68			4×5.8	160	5×5.8	240	5×5.8	240	6.3×5.8	300		
100	4×5.8	160			5×5.8	240	6.3×5.8	300	6.3×5.8	300	6.3×7.7	350
150					6.3×5.8	300	6.3×7.7	600	6.3×7.7	600		
220	5×5.8	240	6.3×5.8	300	6.3×5.8	300	6.3×7.7	600			8×10.5	670
330	6.3×5.8	300	6.3×7.7	600	6.3×7.7	600			8×10.5	850	10×10.5	900
390									8×10.5	850		
470	6.3×7.7	600	6.3×7.7	600			8×10.5	850				
560							8×10.5	850	10×10.5	1190		
680	6.3×7.7	600			8×10.5	850			10×10.5	1190		
820					8×10.5	850	10×10.5	1190				
1000			8×10.5	850	10×10.5	1190	10×10.5	1190				
1200					10×10.5	1190						
1500	8×10.5	850	10×10.5	1190								
2200	10×10.5	1190										

 Case size: ϕ DxL(mm)

 Rated ripple current
 mA rms (120Hz, 105°C)