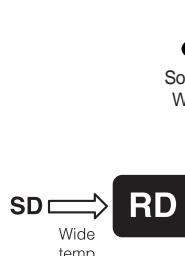


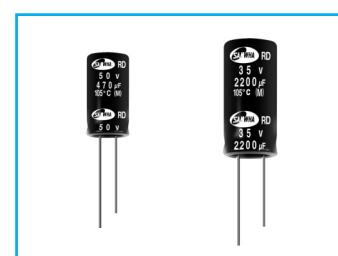
UPGRADE

**RD**Wide Temperature Range  
Series

- Standard series for general purpose
- High CV value
- Wide operating temperature range of -55 ~ +105°C
- Complied to the RoHS directive



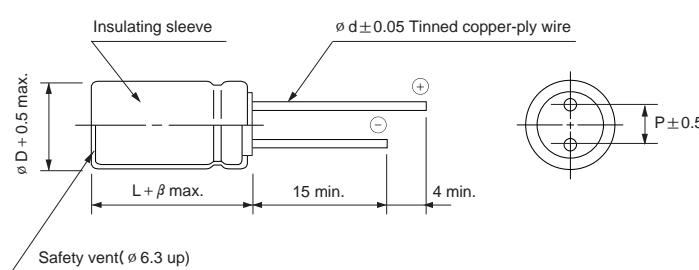
**S**  
Solvent Proof  
WV≤100V



Item	Characteristics																					
Operating temperature range	WV		6.3 ~ 100			160 ~ 350			400, 450													
	Temperature range		-55 ~ +105°C			-40 ~ +105°C			-25 ~ +105°C													
Leakage current max.	WV≤100						WV > 100															
	I = 0.01CV or 3μA whichever is greater (after 2 min) I = 0.03CV or 4μA whichever is greater (after 1 min)						I = 0.02CV+15μA (after 5 min)															
Capacitance tolerance	±20% at 120Hz, 20°C																					
Dissipation factor max. (at 120Hz, 20°C)	Capacitance > 1000μF : tanδ increases by 0.02 for each 1000μF from below value.																					
	WV	6.3	10	16	25	35	50	63	100	160~250	350~450											
	tanδ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.15	0.20											
Low temperature characteristics (Impedance ratio at 120Hz)	WV		6.3	10	16	25	35	50~100	160	200~350	400	450										
	Z-25°C/Z+20°C		5	4	3	2	2	2	3	4	6	10										
	Z-40°C/Z+20°C		10	8	6	4	3	3	4	8	—	—										
Load life (after application of the rated voltage for 2000 hours at 105°C)	Leakage current			Less than specified value																		
	Capacitance change			Within ±20% of initial value																		
	tanδ			Less than 200% of specified value																		
Shelf life (at 105°C)	ø 5, 6.3 and ø 8 products are for 1000 hours After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value.																					

## ● DRAWING

Unit : mm



ø D	5	6.3	8	10	12.5	16	18	22	25.4
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	12.5
ø d	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0
α					0.5				1.0
β		1.5				2.0			

# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

**RD** series

## ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV μF \	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	500			
2.2						5×11 24	5×11 26	5×11 26	6.3×11 23	6.3×11 23	6.3×11 23	8×11.5 28	8×11.5 28	10×12.5 27				
3.3						5×11 29	5×11 32	5×11 32	6.3×11 29	6.3×11 29	8×11.5 34	8×11.5 34	10×12.5 39	10×16 36				
4.7						5×11 35	5×11 38	5×11 38	6.3×11 34	8×11.5 40	8×11.5 40	10×12.5 47	10×12.5 47	10×16 43	10×16 59			
6.8						5×11 42	5×11 46	5×11 46	8×11.5 49	10×12.5 56	10×12.5 56	10×16 62	10×16 62	10×20 56	10×16 72			
10						5×11 51	5×11 56	5×11 56	10×12.5 68	10×12.5 68	10×12.5 68	10×16 75	10×20 82	12.5×20 80	12.5×25 88			
15						5×11 62	5×11 68	6.3×11 78	10×16 92	10×16 92	10×16 92	10×20 100	12.5×20 118	12.5×25 107	12.5×30 115			
22						5×11 75	5×11 83	6.3×11 95	10×16 111	10×16 111	10×20 121	12.5×20 143	12.5×25 155	16×25 144	16×25 159			
33						5×11 92	6.3×11 116	8×11.5 137	10×20 149	10×20 149	12.5×20 175	12.5×25 190	16×25 211	16×31.5 193	16×31.5 207			
47						★ 5×11 96	★ 6.3×11 127	6.3×11 139	10×12.5 190	12.5×20 208	12.5×20 208	12.5×25 227	16×25 252	16×31.5 276	16×35.5 242	18×31.5 261		
68						★ 5×11 108	6.3×11 132	8×11.5 180	8×11.5 197	10×16 251	12.5×25 273	16×20 279	16×25 303	16×31.5 332	18×35.5 373	18×40 352	18×31.5 335	
100						★ 5×11 119	6.3×11 151	• 6.3×11 160	8×11.5 218	8×11.5 239	10×20 332	12.5×25 331	16×25 368	16×31.5 402	18×35.5 407	18×40 427	22×41 486	
150			5×11 134	6.3×11 167	6.3×11 185	8×11.5 231	10×12.5 310	10×12.5 340	12.5×20 477	12.5×20 450	16×25 517	16×35.5 554	18×35.5 523	18×40 596				
220	5×11 146	★ 5×11 162	• 6.3×11 203	8×11.5 264	8×11.5 280	10×12.5 376	10×16 451	12.5×25 630	16×25 596	16×31.5 671	18×35.5 694	18×40 721						
330	★ 6.3×11 206	• 6.3×11 228	8×11.5 293	8×11.5 324	10×12.5 399	10×16 504	10×20 603	16×25 856	18×25 822	18×35.5 850	18×40 968							
470	• 6.3×11 246	6.3×11 272	8×11.5 349	10×12.5 449	10×12.5 521	10×16 657	12.5×20 844	16×25 1021	16×25 1015	18×40 1155	22×41							
680	8×11.5 348	10×12.5 449	10×12.5 488	10×16 591	12.5×16 740	12.5×20 927	12.5×25 1107	16×31.5 1344	22×41 1390									
1000	8×11.5 422	10×12.5 544	10×16 648	10×16 782	12.5×20 974	12.5×25 1226	16×25 1490	18×40 1925										
1500	10×16 621	10×16 680	12.5×16 862	12.5×20 1017	16×20 1188	16×25 1442	16×35.5 1770											
2200	10×20 778	10×20 844	12.5×20 1055	12.5×25 1235	16×25 1426	16×25 1442	16×35.5 1770											
3300	12.5×16 983	12.5×20 1148	12.5×25 1323	16×25 1562	16×35.5 1857	18×35.5 1794	18×40 2689											
4700	12.5×20 1219	12.5×25 1421	16×25 1657	16×31.5 1916	16×35.5 2224	18×35.5 2152	► Case size ø D × L (mm)											
6800	12.5×25 1480	16×25 1737	16×31.5 1982	18×35.5 2335			► Ripple current (mA rms) at 105°C, 120Hz											
10000	16×25 1807	16×35.5 2172	18×35.5 2409															
15000	16×35.5 2233	18×35.5 2482																
22000	18×40 2652																	

Size ø 8×9 is available for capacitors marked "★"

Size ø 10×9 is available for capacitors marked "●"

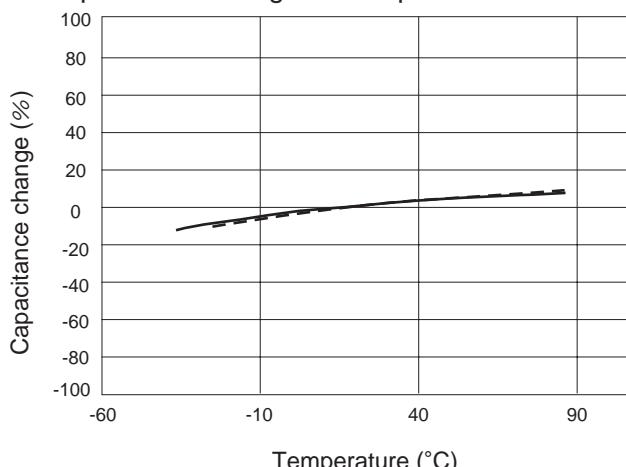
RD series

## TYPICAL PERFORMANCE

— 16V 1000 $\mu$ F  
 ..... 400V 10 $\mu$ F

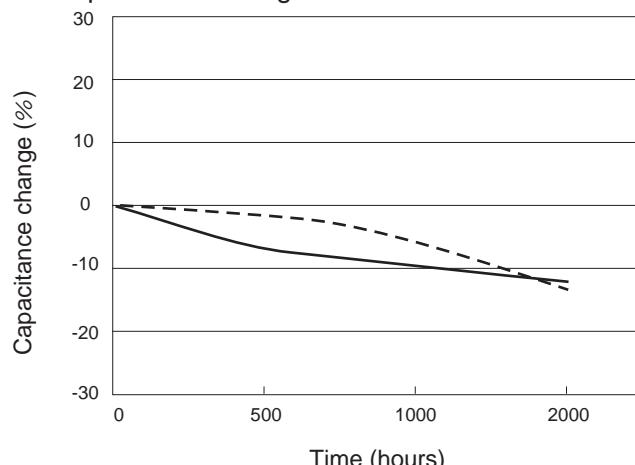
## ● TEMPERATURE CHARACTERISTICS

Capacitance change vs. temperature

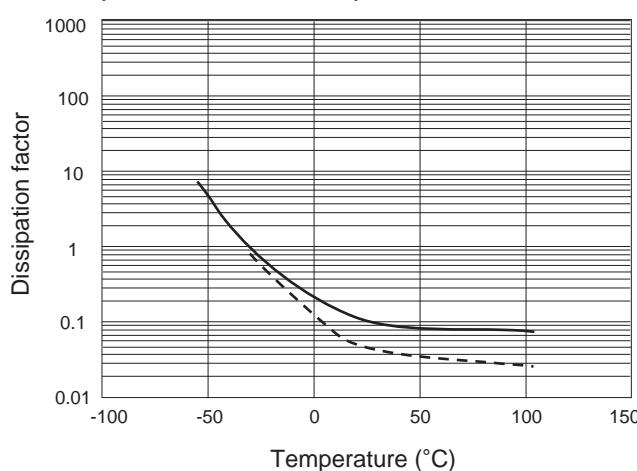


## ● LOAD LIFE (at +105°C)

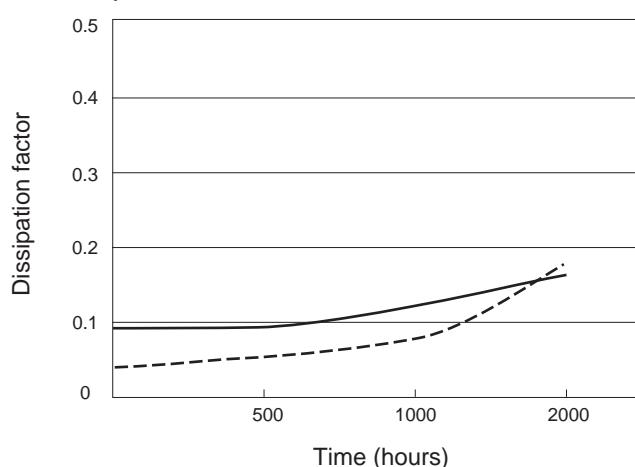
Capacitance change vs. time



Dissipation factor vs. temperature

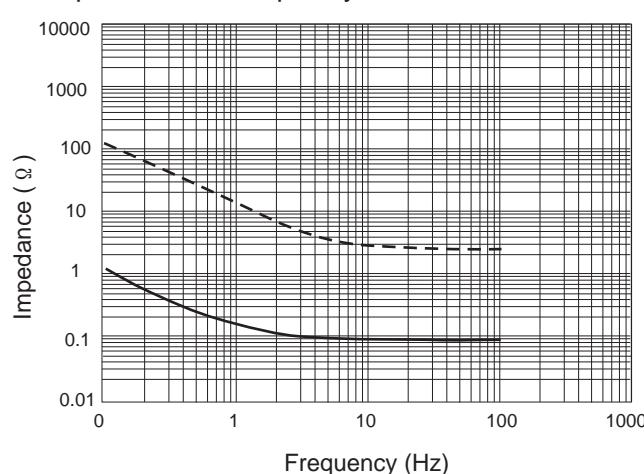


Dissipation factor vs. time

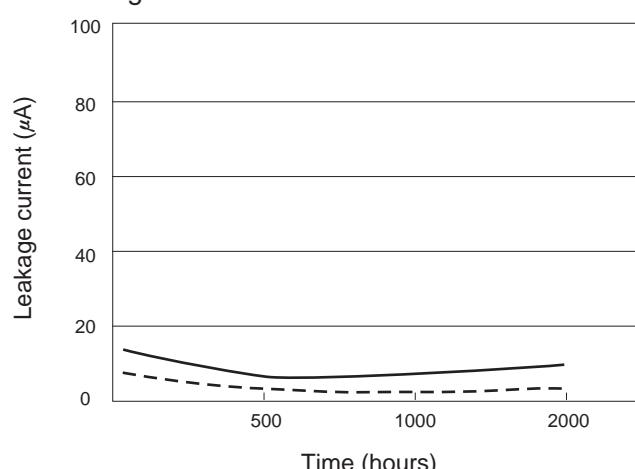


## ● FREQUENCY CHARACTERISTICS

Impedance vs. frequency



Leakage current vs. time



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[LKMD1401H181MF](#) [LKMI2502G820MF](#) [LKMJ2001J122MF](#) [LKML2501C472MF](#) [LKMJ4002C681MF](#) [450MXH330MEFCSN25X45](#)  
[450MXK330MA2RFC22X50](#) [63ZLH560MEFCG412.5X30](#) [ELH2DM331O25KT](#) [ELH2DM471P30KT](#)