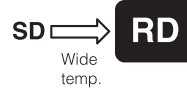


MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RD Wide Temperature Range Series

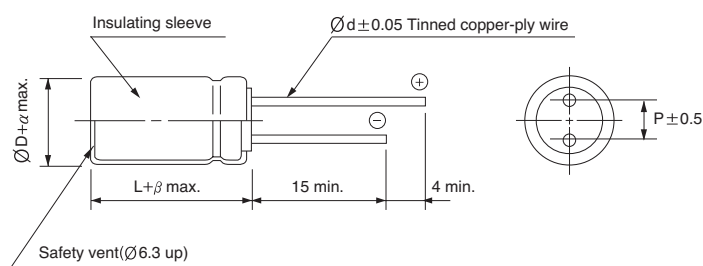
- Standard series for general purpose
- High CV value
- Wide operating temperature range of -55 ~ +105°C
- Complied to the RoHS directive



Item	Characteristics										
Operating temperature range	WV		6.3 ~ 100				160 ~ 450			500	
	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	350~500
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	500
	Z-25°C/Z+20°C	5	4	3	2	2	2	4	6	10	12
	Z-40°C/Z+20°C	12	10	8	5	4	3	6	8	12	-
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								
	∅D		∅D ≤ 8				∅D ≥ 10				
Life time		1000 hours				2000 hours					
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C 6035 clause 5.4.										

DRAWING

Unit : mm



∅D	5	6.3	8	10	12.5	16	18	22
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0
∅d	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0
α	0.5							1.0
β	1.5		2.0				3.0	

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

WV	Frequency		60Hz	120Hz	1kHz	10kHz	50kHz	100kHz ≤
	μF							
6.3~100	~ 47		0.75	1.00	1.55	2.00	2.00	2.00
	68 ~ 680		0.80	1.00	1.35	1.50	1.62	1.75
	820 ~		0.85	1.00	1.15	1.15	1.32	1.50
160~500	~ 220		0.80	1.00	1.40	1.60	1.70	1.80
	330 ~		0.90	1.00	1.13	1.15	1.32	1.50

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

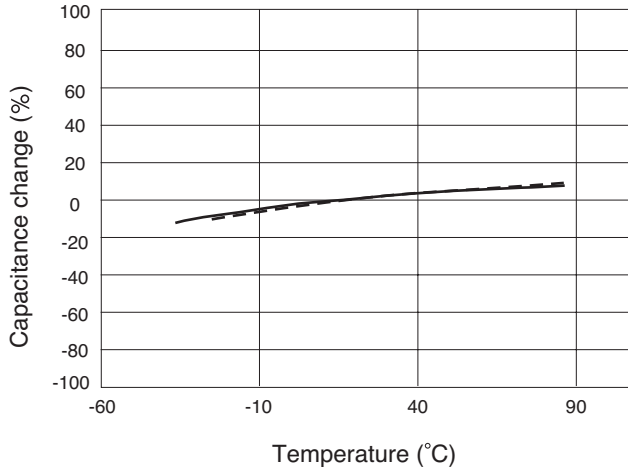
RD series

TYPICAL PERFORMANCE

— 16V 1000 μ F
 400V 10 μ F

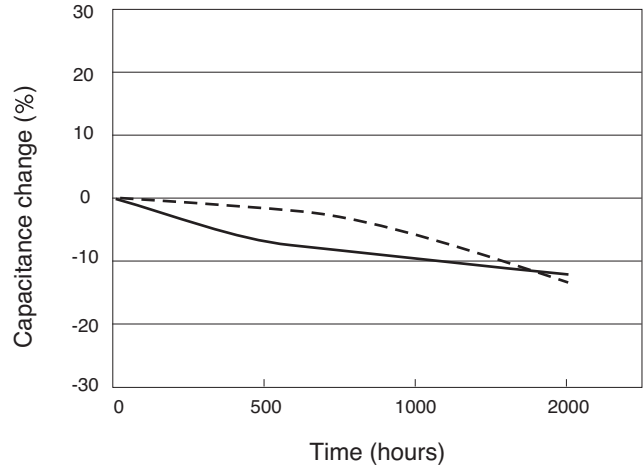
● TEMPERATURE CHARACTERISTICS

Capacitance change vs. temperature

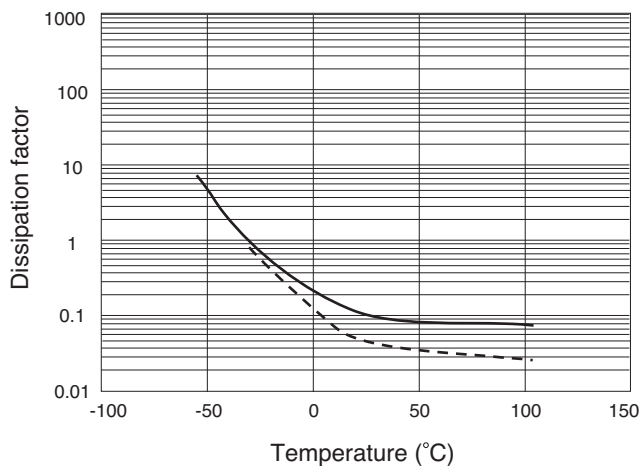


● LOAD LIFE (at +105°C)

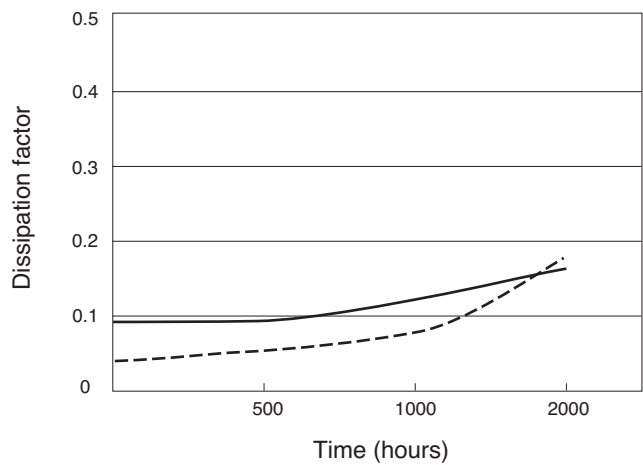
Capacitance change vs. time



Dissipation factor vs. temperature

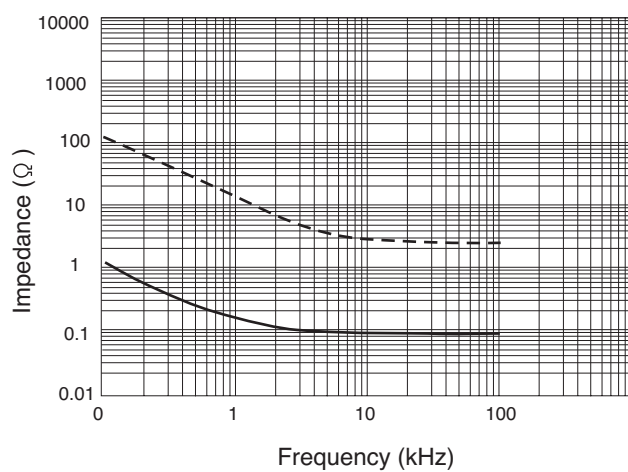


Dissipation factor vs. time



● FREQUENCY CHARACTERISTICS

Impedance vs. frequency



Leakage current vs. time

