

Aluminum Electrolytic Capacitors



RH Series

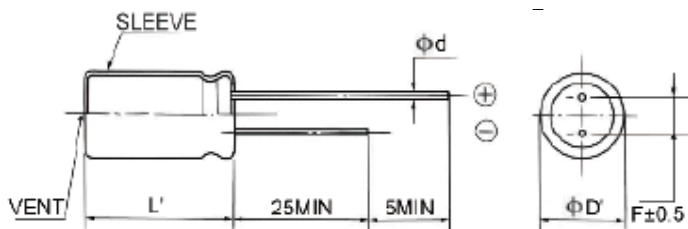
- Small size, Lead Wire Terminal Type.
- Endurance: 105°C 2000 hours.
- Have characteristics of withstanding high temperature 105°C and good reliability.
- Suitable for communication equipment and industrial measurement instruments, switching power supplies, etc.
- Rohs compliance.



◆ SPECIFICATIONS

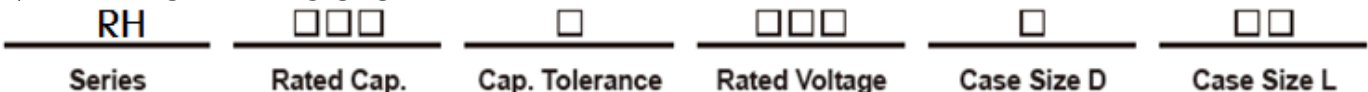
Item	Characteristics														
Operating Temperature Range	-40 to +105°C							-25 to +105°C							
Rated Voltage Range	10 to 250 WV.DC							400 to 450 WV.DC							
Surge Voltage	W.V.	10	16	25	35	50	63	80	100	160	200	250	400	450	at 25°C
	S.V.	13	20	32	44	63	73	85	110	200	250	300	450	500	
Capacitance Tolerance	- 20%(M) ~ + 20% (at 25°C, 120Hz)														
Leakage Current	L.C.	Time		After 1minute				After 5minutes				at 25°C			
		L.C.		I=0.03CV or 3uA				I=0.01CV							
I: Max. Leakage Current (µA) C: Rated Capacitance (µF) V: Rated voltage (V) Whichever is smaller.															
Dissipation Factor (tanδ)	Rated voltage (V)	10	16	25	35	50	63	80	100	160	200	250	400	450	
	Tanδ(Max)	20	18	16	14	10	10	8	8	20	15	15	12	12	
When rated capacitance is over 1000 uF, tan δ shall be added 0.02 to the listed value with increase of every 1000uF (at 25 °C , 120Hz)															
Low Temperature Characteristics	Impedance ratio at 120Hz														
	Rated voltage (V)	160~200			250~350			400		450					
	Z-25°C/Z+20°C	3			4			6		15					
Z-40°C/Z+20°C	4			8			10		-						
Endurance	The following specification shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 105°C														
	Capacitance Change	≅ ±20% of the initial value													
	Dissipation Factor	≅ 200% of the initial specified value													
Shelf Life	The following specification shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000hours at 105°C without voltage applied .(Reference JIS C 5102)														
	Capacitance Change	≅ ±20% of the initial value													
	Dissipation Factor	≅ 200% of the initial specified value													
Leakage Current	≅ 200% of the initial specified value														

◆ DRAWING



ψD	5	6.3	8	10-13	16-18	20-22	25
ψd	0.5		0.6	0.8		1.0	
F	2	2.5	3.5	5.0	7.5	10.0	12.5
ψD'	D + 0.5 max					D + 1.0 max	
L'	L + 1.5 max					L + 2.0 max	

◆ PART NUMBERING SYSTEM



RH Series

◆ FREQUENCY COEFFICIENT OF RATED RIPPLE CURRENT

Frequency	Cap.	50Hz	120Hz		500Hz	1KHz	10KHz~
Coefficient	0.1-1	0.50	1.00		1.20	1.30	1.50
	2.2-4.7	0.65	1.00		1.20	1.30	1.50
	10-47	0.80	1.00		1.20	1.30	1.50
	100-1000	0.80	1.00		1.10	1.15	1.20
	2200-10000	0.80	1.00		1.05	1.10	1.15

■ STANDARD RATINGS

WV uF	10		16		25	
	DxL	R.C.	DxL	R.C.	DxL	R.C.
10			4 X 7	29	4 X 7	18
22	4 X 7	22	4 X 7	44	5 X 7	35
33	4 X 7	43	4 X 7	60	5 X 7	57
47	4 X 7	48	5 X 7	70	5 X 7	100
100	5 X 7	75	5 X 7	91	6.3 X 7	112
220	5 X 7	160	6.3 X 7	170	8 X 9	240
330	8 X 7	180	8 X 9	195	10 X 9	310
470	8 X 9	295	10 X 9	310	10 X 9	370
1000	10 X 9	460	8 X 16	520	12.5 X 16	670
2200	12.5 X 16	770	12.5 X 16	770	16 X 20	1100
3300	16 X 16	930	16 X 16	930	18 X 20	1200
4700	16 X 20	1200	16 X 20	1200	18 X 25	1490
6800	18 X 20	1330	18 X 20	1330		
10000	18 X 25	1680	18 X 25	1680		

WV uF	35		50		63	
	DxL	R.C.	DxL	R.C.	DxL	R.C.
1			4 X 7	8	4 X 7	8
2.2			4 X 7	11	4 X 7	11
3.3			4 X 7	14	4 X 7	14
4.7			4 X 7	23	4 X 7	23
10			5 X 7	30	4 X 7	30
22	5 X 7	48	5 X 7	62	5 X 7	62
33	5 X 7	58	6.3 X 7	75	6.3 X 7	75
47	6.3 X 7	76	6.3 X 7	100	8 X 9	100
100	8 X 9	58	8 X 9	180	8 X 9	200
220	10 X 9	300	10 X 9	410	10 X 9	400
330	10 X 9	360	10 X 15	450		
470	10 X 9	450	12.5 X 16	570		
1000	12.5 X 16	640	16 X 16	890		
2200	16 X 16	850	18 X 25	1320		
3300	18 X 20	1200				
4700	18 X 25	1490				

→ Rated Ripple Current (mA rms) at 105°C 120Hz
 → Case Size: Φ DxL(mm)

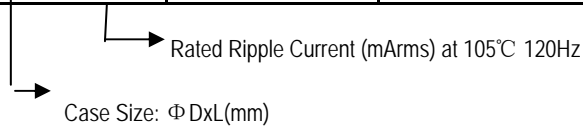
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■STANDARD RATINGS

uF \ WV	160		200		250	
	DxL	R.C.	DxL	R.C.	DxL	R.C.
3.3						
4.7	8 X 9	54	8 X 9	54	8 X 9	54
10	10 X 9	85	10 X 9	85	10 X 14	92
22	10 X 14	110	10 X 16	110	12.5 X 16	156
33	12.5 X 16	175	12.5 X 16	175	16 X 16	238
47	16 X 16	245	16 X 16	150	18 X 16	309
100	16 X 20	381	16 X 20	381	18 X 25	451
120	16 X 20	405	18 X 18	410	18 X 25	465
150	18 X 20	464	18 X 20	532	18 X 30	550
220	18 X 25	602	18 X 25	605		
330	18 X 30					
470	18 X 35					

uF \ WV	350		400		450	
	DxL	R.C.	DxL	R.C.	DxL	R.C.
2.2			8 X 9	35	10 X 9	29
3.3	8 X 9	37	10 X 9	40	8 X 11	65
4.7	10 X 9	49	10 X 9	49	8 X 14	84
10	10 X 12	100	10 X 14	100	12.5 X 16	109
22	12.5 X 16	183	12.5 X 16	187	13 X 18	170
33	16 X 16	238	13 X 20	238	16 X 16	238
47	16 X 20	309	16 X 20	309	18 X 18	275
68	18 X 18	325	18 X 20	320	18 X 25	290
82	18 X 20	340	18 X 25	335	18 X 30	300
100	18 X 25	355	18 X 25	365	18 X 32	320
120	18 X 30	363	18 X 30	380	18 X 34	375
150	18 X 34	410	18 X 36	415	18 X 40	400



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