



Aluminum Electrolytic Capacitors

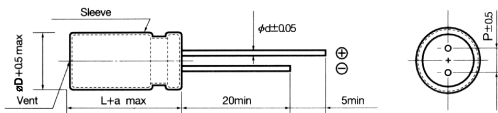
Radial High Reliability 125°C

HR Series

• High reliability 125°C, 1000 hours

SPECIFICATION																		
ITEM	SPECIFICATION																	
Capacitance Tolerance (120Hz 20°C)	± 20% (M)																	
Rated Working Voltage	6.3WV-250WV																	
Operation Temperature Range	- 40 ~ + 125 °C						- 25 ~ + 125 °C											
Surge Voltage(V) (20°C)	WV	6.3	10	16	25	35	50	63	100	160	200	250						
	SV	8	13	20	32	44	63	79	125	200	250	300						
Leakage Current (20°C)	I ≤ 0.01CV or 3 Whichever is greater						I ≤ 0.03CV + 10											
	After rated voltage applied for 3 minutes																	
	Where	I : Leakage Current (μA)						C : Capacitance (μF)						V : Rated Voltage (V)				
Dissipation Factor (tan δ) (120 Hz 20°C)	WV	6.3	10	16	25	35	50	63	100	160	200	250						
	DF	0.20	0.15	0.12	0.10	0.09	0.08	0.08	0.08	0.15	0.15	0.15						
	Add 0.02 per 1000 μF for more than 1000 μF																	
Low Temperature Characteristics	Impedance ratio at 120Hz																	
	Comparison Z/WV	6.3	10	16	25	35	50	63	100	160	200	250						
	- 25 °C / 20°C	4	3	2	2	2	2	2	2	3	3	3						
	- 40 °C / 20°C	6	4	3	3	3	3	3	3	-	-	-						
Load Life	After 1000 hours application of W.V. at 125°C, the capacitor shall meet the following limits																	
	Capacitance Change						≤ ± 20 % of Initial Value											
	Dissipation Factor						≤ 200 % of Initial Specified Value											
	Leakage Current						≤ Initial Specified Value											
Shelf Life	After 500 hours to place at 125° C without rated voltage applied, the capacitor shall meet the limits as same as load life.																	
Others	Satisfied JIS C-5141																	

DIMENSIONS (unit:mm)



øD	5	6.3	8	10	13	16
P	2.0	2.5	3.5	5.0	5.0	7.5
ød	0.5	0.5	0.6	0.6	0.6	0.8
a	1.0	1.0	1.0	1.0	2.0	2.0

CASE SIZE & MAX RIPPLE CURRENT

CAP Code	WV μF	CASE SIZE ØDxL (mm)																MAX RIPPLE CURRENT (mA/125°C, 120Hz)															
		6.3		10		16		25		35		50		63		100		160		250													
		ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA												
3R3	3.3													8x11	125	10x12.5	70	10x25	80														
4R7	4.7													8x11	140	10x15	155	10x30	95														
100	10													10x12.5	175	10x20	160	13x25	185														
220	22												8x11	220	10x17	300	13x20	290	13x30	325													
330	33											8x11	245	8x11	250	10x20	395	13x25	360	13x40	400												
470	47								8x11	270	8x11	295	10x12.5	380	13x20	550	13x36	480	16x32	575													
101	100					8x11	330	8x11	370	10x12.5	470	10x17	590	10x17	645	13x30	960	16x32	835														
221	220	8x11	345	8x11	400	10x12.5	580	10x17	755	10x17	805	13x20	1090	13x20	1190																		
331	330	8x11	425	10x12.5	580	10x17	825	10x20	995	13x20	1230	13x20	1335	13x25	1610																		
471	470	10x12.5	600	10x17	805	10x17	985	13x20	1375	13x20	1470	13x25	1755	13x36	2205																		
102	1000	10x17	695	13x20	1465	13x20	1790	13x25	2215	13x36	2715	13x40	3170																				
222	2200	13x20	1715	13x25	2130	13x36	2480	13x40	3315																								
332	3300	13x25	2225	13x30	2865																												
472	4700	13x30	2775	13x40	3500																												
682	6800	13x40	3565																														