

Aluminum Electrolytic Capacitors



Radial High Frequency, Ripple Current and Reliability 85°C and 105°C

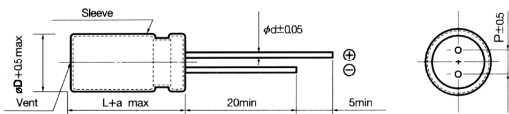
RDHR, UTHR Series

- Used in video as horizontal deflection current correction
- It provides high frequency, high-ripple, and high reliability
- The product is applied at 85°C (RDHR Series) or 105°C (UTHR Series)

SPECIFICATION

ITEM	SPECIFICATION			
Capacitance Tolerance (120Hz 20°C)	±10% (K)			
Rated Working Voltage	25WV~ 50WV			
Operation Temperature Range	(RDHR Series) - 40 ~ + 85°C		(UTHR Series) - 40 ~ + 105°C	
Surge Voltage(V) (20°C)	WV	25	35	50
	SV	32	44	63
Leakage Current (20°C)	I ≤ 100			
	After applying rated voltage for 3 minutes		I:LeakageCurrent(μA)	
Dissipation Factor (tan δ) (120Hz 20°C)	WV	25	35	50
	DF	0.05	0.05	0.05
Load Life	After 1000 hours of application of W.V. at 85°C (RDHR Series) or 105°C (UTHR Series) the capacitor shall meet the following limits			
	Capacitance Change		≤ ± 10 % of Initial Value	
	Dissipation Factor		≤ 200 % of Initial Specified Value	
Shelf Life	After 500 hours to place at 85°C (RDHR Series) or 105°C (UTHR Series) without rated voltage applied, the capacitor shall meet the limits as same as load life.			
	Others			
Satisfied JIS C-5141				

DIMENSIONS (unit:mm)



φD	10	13	16	18	20	22	25
P	5.0	5.0	7.5	7.5	10.0	10.0	12.5
φd	0.6	0.6	0.8	0.8	0.8	0.8	0.8
a	1.0	2.0	2.0	2.0	2.0	2.0	2.0

RIPPLE CURRENT COEFFICIENTS

Temperature Multipliers

Temp. (°C)	~ 70	85	105
Coefficient	1.35	1.00	0.85

CASE SIZE & MAX RIPPLE CURRENT

CASE SIZE ØDxL(mm)

MAX RIPPLE CURRENT (A/15.75KHZ), (85°C/RDHR Series, 105°C/UTHR Series)

CAP Code	WV	25		35		50	
		μF		μF		μF	
010	1.0					10×20	1.6
1R2	1.2			10×20	1.8	13×20	2.1
1R5	1.5			10×20	2.1	13×20	2.4
1R8	1.8	10×20	2.2	13×20	2.6	13×20	2.6
2R2	2.2	13×20	2.9	13×20	2.9	13×20	2.9
2R7	2.7	13×20	3.2	13×20	3.2	13×25	3.5
3R3	3.3	13×20	3.6	13×25	3.9	16×26	4.5
3R9	3.9	13×20	3.9	13×25	4.2	16×26	4.8
4R7	4.7	13×25	4.7	16×26	5.3	16×26	5.3
5R6	5.6	16×26	5.9	16×26	5.9	16×32	6.4
6R8	6.8	16×26	6.5	16×32	7.0	16×36	8.0
8R2	8.2	16×26	7.1	16×32	7.7	18×36	8.7
100	10	16×32	8.6	16×36	9.0	18×40	10
120	12	16×36	10	18×36	10	22×40	11
150	15	18×36	11	18×40	12	22×40	13
180	18	18×40	13	22×40	14	25×40	16
220	22	20×40	15	22×40	16	25×40	18
270	27	22×40	18	25×40	19		

EQUIVALENT SERIES RESISTANCE (ESR)(Ω)

120KHz/20°C

CAP Code	WV	25		35		50	
		μF		μF		μF	
010	1.0						66.348
1R2	1.2				55.290		55.290
1R5	1.5				44.232		44.232
1R8	1.8		36.860		36.860		36.860
2R2	2.2		30.158		30.158		30.158
2R7	2.7		24.573		24.573		24.573
3R3	3.3		20.106		20.106		20.106
3R9	3.9		17.012		17.012		17.012
4R7	4.7		14.117		14.117		14.117
5R6	5.6		11.848		11.848		11.848
6R8	6.8		9.757		9.757		9.757
8R2	8.2		8.091		8.091		8.091
100	10		6.635		6.635		6.635
120	12		5.529		5.529		5.529
150	15		4.423		4.423		4.423
180	18		3.686		3.686		3.686
220	22		3.016		3.016		3.016
270	27		2.457		2.457		