

URHA Series (85°C 10000H)

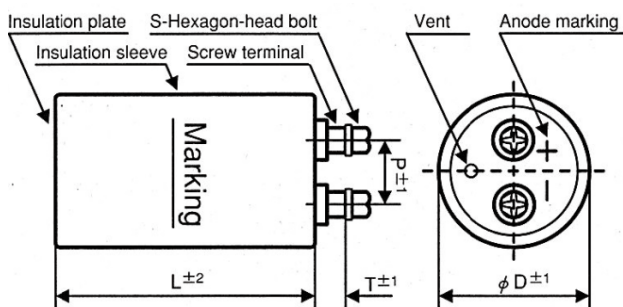
- Compliant to the RoHS directive
- High ripple current & Long life design
- 85°C 10000H for Industrial Automation、Telecommunication Power Station、Medical Power Supply、Large Power Servo Driver...



◆ Specification

Item	Performance Characteristics	
Operating range	-25°C ~ +85°C	
Rated voltage range	160V ~ 450V	
Capacitance tolerance	±20% (20°C, 120Hz)	
Leakage current	$I \leq 0.01CV(\mu A)$ or 5mA (Whichever is smaller) (20°C, after 5 minutes) C=Nominal capacitance(μF), V=Rated voltage(V)	
Dissipation factor (20°C, 120Hz)	Shall not exceed the values shown in the STANDARD RATINGS	
Load Life	After applying rated voltage with specified ripple current for 10000 hours at 85°C(the peak voltage shall not exceed the rated voltage), and then restored for 24 hours, capacitor shall meet the following requirement:	
	Capacitance change	Within ±20% of the initial value.
	Dissipation factor	Not more than 200% of the initial specified value.
Shelf Life	After storing for 500 hours at 85°C, UR to be applied for 30 minutes and then restored for 24 hours, capacitor shall meet the following requirement:	
	Capacitance change	Within ±20% of the initial value.
	Dissipation factor	Not more than 150% of the initial specified value.
Standard	JIS C 5101-4	

◆ Dimensions(Screw-mount)



ΦD	P	S	T	Cap material
36	12.7	M5×10	6.4	Epoxy Resin
51	22.0	M5×10	6.4	Epoxy Resin
64	28.6	M5×10	6.4	Epoxy Resin
77	32.0	M5×10	6.4	Epoxy Resin
90	32.0	M6×17	6.4	Epoxy Resin
101	41.5	M8×17	11.3	Epoxy Resin

◆ Dimensions(Screw-mount)

Frequency(Hz)	50	120	300	1k	3k
Coefficient	0.8	1.0	1.1	1.3	1.4

◆ STANDARD RATING

Rated Voltage code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tanδ 20°C, 120Hz	Ripple current 85°C, 120Hz (Arms)	ESR(typ.) 20°C, 100Hz (mΩ)	Z max 20°C, 10KHz (mΩ)	Part number
160 2C (200)	3300	51×80	0.25	9.84	35	35	URHA2C332YC080M
	3900	51×80	0.25	11.34	30	28	URHA2C392YC080M
	4700	51×100	0.25	13.82	25	25	URHA2C472YC100M
	5600	51×100	0.25	14.26	23	23	URHA2C562YC100M
	6800	64×100	0.25	15.12	20	22	URHA2C682YD100M
	8200	64×100	0.25	18.36	18	19	URHA2C822YD100M
	10000	64×100	0.25	22.57	15	16	URHA2C103YD100M
	12000	64×130	0.25	22.90	12	15	URHA2C123YD130M
	15000	64×130	0.25	24.41	11	12	URHA2C153YD130M
		77×100	0.25	24.41	11	12	URHA2C153YE100M
	18000	77×115	0.25	27.22	9	11	URHA2C183YE115M
	22000	77×130	0.25	30.78	8	8	URHA2C223YE130M
	27000	77×155	0.25	35.32	7	8	URHA2C273YE155M
	33000	90×130	0.25	39.74	6	7	URHA2C333YF130M
39000	90×157	0.25	48.82	5	7	URHA2C393YF157M	
200 2D (250)	2200	51×80	0.25	9.07	43	60	URHA2D222YC080M
	2700	51×80	0.25	10.58	31	39	URHA2D272YC080M
	3300	51×80	0.25	12.10	29	35	URHA2D332YC080M
	3900	51×100	0.25	12.64	26	30	URHA2D392YC100M
	4700	51×100	0.25	13.07	25	27	URHA2D472YC100M
	5600	64×100	0.25	14.04	23	25	URHA2D562YD100M
	6800	64×100	0.25	16.74	19	20	URHA2D682YD100M
	8200	77×100	0.25	17.28	15	18	URHA2D822YE100M
	10000	77×100	0.25	21.71	14	14	URHA2D103YE100M
	12000	77×115	0.25	23.54	12	14	URHA2D123YE115M
	15000	77×115	0.25	25.06	10	13	URHA2D153YE115M
	18000	77×130	0.25	28.62	8	12	URHA2D183YE130M
	22000	77×143	0.25	33.70	7	7	URHA2D223YE143M
	27000	90×130	0.25	37.04	6	7	URHA2D273YF130M
33000	90×157	0.25	42.12	5	7	URHA2D333YF157M	
250 2E (300)	1500	51×80	0.25	5.94	53	50	URHA2E152YC080M
	1800	51×80	0.25	7.45	46	44	URHA2E182YC080M
	2200	51×100	0.25	8.75	38	40	URHA2E222YC100M
	2700	51×100	0.25	11.56	33	36	URHA2E272YC100M
	3300	51×100	0.25	12.85	28	35	URHA2E332YC100M
	3900	64×100	0.25	14.15	25	30	URHA2E392YD100M
	4700	64×100	0.25	15.44	21	23	URHA2E472YD100M
	5600	64×100	0.25	16.09	19	21	URHA2E562YD100M
	6800	64×115	0.25	17.17	15	18	URHA2E682YD115M
	8200	64×115	0.25	18.68	13	16	URHA2E822YD115M
	10000	64×130	0.25	23.00	12	14	URHA2E103YD130M
		77×130	0.25	23.00	12	14	URHA2E103YE130M
	12000	77×115	0.25	24.19	10	11	URHA2E123YE115M
	15000	77×130	0.25	25.60	8	11	URHA2E153YE130M
18000	77×155	0.25	32.72	7	10	URHA2E183YE155M	
22000	90×157	0.25	39.85	6	8	URHA2E223YF157M	
350 2V (400)	560	36×80	0.20	4.21	194	222	URHA2V561YA080M
	680	36×80	0.20	4.75	156	197	URHA2V681YA080M
	820	36×80	0.20	5.62	130	174	URHA2V821YA080M
	1000	51×80	0.20	6.48	109	135	URHA2V102YC080M
	1200	51×75	0.20	7.67	90	120	URHA2V122YC080M
	1500	51×80	0.20	8.64	77	100	URHA2V152YC080M
	1800	51×100	0.20	10.26	62	80	URHA2V182YC100M
	2200	51×100	0.20	11.12	51	70	URHA2V222YC100M
	2700	64×100	0.20	13.18	41	58	URHA2V272YD100M
	3300	64×100	0.20	14.90	35	51	URHA2V332YD100M

◆ STANDARD RATING

Rated Voltage code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tanδ 20°C, 120Hz	Ripple current 85°C, 120Hz (Arms)	ESR(typ.) 20°C, 100Hz (mΩ)	Z max 20°C, 10KHz (mΩ)	Part number
350 2V (400)	3900	64×100	0.20	18.04	30	47	URHA2V392YD100M
	4700	64×115	0.20	20.41	28	40	URHA2V472YD115M
	5600	77×115	0.20	22.14	25	35	URHA2V562YE115M
	6800	77×130	0.20	22.79	20	29	URHA2V682YE130M
	8200	77×155	0.20	24.62	17	25	URHA2V822YE155M
	10000	77×155	0.20	30.35	15	23	URHA2V103YE155M
		90×157	0.20	30.35	15	23	URHA2V103YF157M
	12000	90×157	0.20	32.72	13	21	URHA2V123YF157M
	15000	90×196	0.20	39.10	10	20	URHA2V153YF196M
18000	90×220	0.20	40.50	8	20	URHA2V183YF220M	
22000	90×236	0.20	42.98	8	20	URHA2V223YF236M	
400 2G (450)	680	51×80	0.20	6.05	122	214	URHA2G681YC080M
	820	36×100	0.20	6.59	101	177	URHA2G821YC080M
	1000	51×80	0.20	7.45	85	150	URHA2G102YC080M
	1200	51×80	0.20	7.99	75	125	URHA2G122YC080M
	1500	51×100	0.20	9.29	62	108	URHA2G152YC100M
	1800	51×100	0.20	10.58	51	90	URHA2G182YC100M
	2200	64×100	0.20	12.53	39	75	URHA2G222YD100M
	2700	64×100	0.20	14.36	36	66	URHA2G272YD100M
	3300	64×115	0.20	16.63	35	53	URHA2G332YD115M
	3900	64×130	0.20	18.14	29	48	URHA2G392YD130M
	4700	77×115	0.20	19.66	26	41	URHA2G472YE115M
	5600	77×130	0.20	22.46	21	37	URHA2G562YE130M
	6800	77×155	0.20	23.44	18	30	URHA2G682YE155M
	8200	90×157	0.20	27.97	16	26	URHA2G822YF157M
	10000	90×157	0.20	31.00	13	23	URHA2G103YF157M
12000	90×157	0.20	34.88	12	21	URHA2G123YF157M	
15000	90×220	0.20	39.74	10	21	URHA2G153YF220M	
450 2W (500)	680	51×80	0.20	5.95	142	196	URHA2W681YC080M
	820	51×80	0.20	6.70	99	187	URHA2W821YC080M
	1000	51×80	0.20	7.67	84	154	URHA2W102YC080M
	1200	51×100	0.20	8.53	73	129	URHA2W122YC100M
	1500	51×115	0.20	9.50	60	108	URHA2W152YC115M
	1800	51×130	0.20	12.53	48	100	URHA2W182YC130M
	2200	64×100	0.20	14.58	35	84	URHA2W222YD100M
	2700	64×115	0.20	14.90	35	69	URHA2W272YD115M
	3300	64×130	0.20	15.34	32	61	URHA2W332YD130M
	3900	77×115	0.20	17.17	32	51	URHA2W392YE115M
	4700	77×130	0.20	19.55	26	43	URHA2W472YE130M
	5600	77×155	0.20	21.82	18	37	URHA2W562YE155M
	6800	90×157	0.20	25.81	16	33	URHA2W682YF157M
	8200	90×157	0.20	27.32	14	30	URHA2W822YF157M
	10000	90×196	0.20	32.40	12	25	URHA2W103YF196M
12000	90×236	0.20	35.53	10	22	URHA2W123YF236M	

- The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 10°C rise.
- When long life performance is required in actual use, the rms ripple current has to be reduced.