

UFXA Series (85°C 5000H)

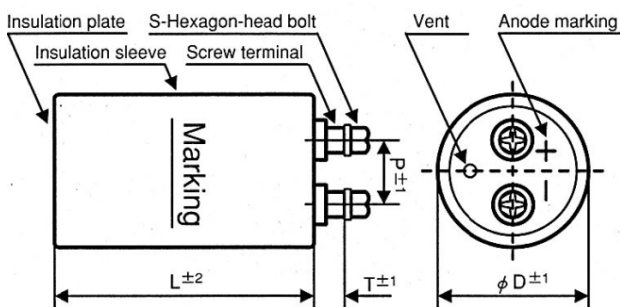
- Compliant to the RoHS directive
- High ripple current & Long life design
- 85°C 5000H for Industrial Automation、Telecommunication Power Station、Medical Power Supply、Large Power Servo Driver...



◆ 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 5000 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	9.57	35	35	UFXA2C332YC080M
	3900	51×80	0.25	10.92	30	28	UFXA2C392YC080M
	4700	51×100	0.25	13.31	25	25	UFXA2C472YC100M
	5600	51×100	0.25	13.73	23	23	UFXA2C562YC100M
	6800	64×100	0.25	14.56	20	22	UFXA2C682YD100M
	8200	64×100	0.25	17.68	18	19	UFXA2C822YD100M
	10000	64×100	0.25	21.74	15	16	UFXA2C103YD100M
	12000	64×130	0.25	22.05	12	15	UFXA2C123YD130M
	15000	64×130	0.25	23.50	11	12	UFXA2C153YD130M
		77×100	0.25	23.50	11	12	UFXA2C153YE100M
	18000	77×115	0.25	26.21	9	11	UFXA2C183YE115M
	22000	77×130	0.25	29.64	8	8	UFXA2C223YE130M
	27000	77×155	0.25	34.01	7	8	UFXA2C273YE155M
	33000	90×130	0.25	38.27	6	7	UFXA2C333YF130M
39000	90×157	0.25	47.01	5	7	UFXA2C393YF157M	
200 2D (250)	2200	51×80	0.25	8.74	43	60	UFXA2D222YC080M
	2700	51×80	0.25	10.19	31	39	UFXA2D272YC080M
	3300	51×80	0.25	11.65	29	35	UFXA2D332YC080M
	3900	51×100	0.25	12.17	26	30	UFXA2D392YC100M
	4700	51×100	0.25	12.58	25	27	UFXA2D472YC100M
	5600	64×100	0.25	13.52	23	25	UFXA2D562YD100M
	6800	64×100	0.25	16.12	19	20	UFXA2D682YD100M
	8200	77×100	0.25	16.64	15	18	UFXA2D822YE100M
	10000	77×100	0.25	20.90	14	14	UFXA2D103YE100M
	12000	77×115	0.25	22.67	12	14	UFXA2D123YE115M
	15000	77×115	0.25	24.13	10	13	UFXA2D153YE115M
	18000	77×130	0.25	27.56	8	12	UFXA2D183YE130M
	22000	77×143	0.25	32.45	7	7	UFXA2D223YE143M
	27000	90×130	0.25	35.67	6	7	UFXA2D273YF130M
33000	90×157	0.25	40.56	5	7	UFXA2D333YF157M	
250 2E (300)	1500	51×80	0.25	5.72	53	50	UFXA2E152YC080M
	1800	51×80	0.25	7.18	46	44	UFXA2E182YC080M
	2200	51×100	0.25	8.42	38	40	UFXA2E222YC100M
	2700	51×100	0.25	11.13	33	36	UFXA2E272YC100M
	3300	51×100	0.25	12.38	28	35	UFXA2E332YC100M
	3900	64×100	0.25	13.62	25	30	UFXA2E392YD100M
	4700	64×100	0.25	14.87	21	23	UFXA2E472YD100M
	5600	64×100	0.25	15.50	19	21	UFXA2E562YD100M
	6800	64×115	0.25	16.54	15	18	UFXA2E682YD115M
	8200	64×115	0.25	17.99	13	16	UFXA2E822YD115M
	10000	64×130	0.25	22.15	12	14	UFXA2E103YD130M
		77×130	0.25	22.15	12	14	UFXA2E103YE130M
	12000	77×115	0.25	23.30	10	11	UFXA2E123YE115M
	15000	77×130	0.25	24.65	8	11	UFXA2E153YE130M
18000	77×155	0.25	31.51	7	10	UFXA2E183YE155M	
22000	90×157	0.25	38.38	6	8	UFXA2E223YF157M	
350 2V (400)	560	36×80	0.20	4.06	194	222	UFXA2V561YA080M
	680	36×80	0.20	4.58	156	197	UFXA2V681YA080M
	820	36×80	0.20	5.41	130	174	UFXA2V821YA080M
	1000	51×80	0.20	6.24	109	135	UFXA2V102YC080M
	1200	51×75	0.20	7.38	90	120	UFXA2V122YC080M
	1500	51×80	0.20	8.32	77	100	UFXA2V152YC080M
	1800	51×100	0.20	9.88	62	80	UFXA2V182YC100M
	2200	51×100	0.20	10.71	51	70	UFXA2V222YC100M
	2700	64×100	0.20	12.69	41	58	UFXA2V272YD100M
	3300	64×100	0.20	14.35	35	51	UFXA2V332YD100M

◆ 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	17.37	30	47	UFXA2V392YD100M
	4700	64×115	0.20	19.66	28	40	UFXA2V472YD115M
	5600	77×115	0.20	21.32	25	35	UFXA2V562YE115M
	6800	77×130	0.20	21.94	20	29	UFXA2V682YE130M
	8200	77×155	0.20	23.71	17	25	UFXA2V822YE155M
	10000	77×155	0.20	29.22	15	23	UFXA2V103YE155M
		90×157	0.20	29.22	15	23	UFXA2V103YF157M
	12000	90×157	0.20	31.51	13	21	UFXA2V123YF157M
	15000	90×196	0.20	37.65	10	20	UFXA2V153YF196M
	18000	90×220	0.20	39.00	8	20	UFXA2V183YF220M
22000	90×236	0.20	41.39	8	20	UFXA2V223YF236M	
400 2G (450)	680	51×80	0.20	5.82	122	214	UFXA2G681YC080M
	820	36×100	0.20	6.34	101	177	UFXA2G821YC080M
	1000	51×80	0.20	7.18	85	150	UFXA2G102YC080M
	1200	51×80	0.20	7.70	75	125	UFXA2G122YC080M
	1500	51×100	0.20	8.94	62	108	UFXA2G152YC100M
	1800	51×100	0.20	10.19	51	90	UFXA2G182YC100M
	2200	64×100	0.20	12.06	39	75	UFXA2G222YD100M
	2700	64×100	0.20	13.83	36	66	UFXA2G272YD100M
	3300	64×115	0.20	16.02	35	53	UFXA2G332YD115M
	3900	64×130	0.20	17.47	29	48	UFXA2G392YD130M
	4700	77×115	0.20	18.93	26	41	UFXA2G472YE115M
	5600	77×130	0.20	21.63	21	37	UFXA2G562YE130M
	6800	77×155	0.20	22.57	18	30	UFXA2G682YE155M
	8200	90×157	0.20	26.94	16	26	UFXA2G822YF157M
	10000	90×157	0.20	29.85	13	23	UFXA2G103YF157M
	12000	90×157	0.20	33.59	12	21	UFXA2G123YF157M
15000	90×220	0.20	38.27	10	21	UFXA2G153YF220M	
450 2W (500)	680	51×80	0.20	5.72	142	196	UFXA2W681YC080M
	820	51×80	0.20	6.45	99	187	UFXA2W821YC080M
	1000	51×80	0.20	7.38	84	154	UFXA2W102YC080M
	1200	51×100	0.20	8.22	73	129	UFXA2W122YC100M
	1500	51×115	0.20	9.15	60	108	UFXA2W152YC115M
	1800	51×130	0.20	12.06	48	100	UFXA2W182YC130M
	2200	64×100	0.20	14.04	35	84	UFXA2W222YD100M
	2700	64×115	0.20	14.35	35	69	UFXA2W272YD115M
	3300	64×130	0.20	14.77	32	61	UFXA2W332YD130M
	3900	77×115	0.20	16.54	32	51	UFXA2W392YE115M
	4700	77×130	0.20	18.82	26	43	UFXA2W472YE130M
	5600	77×155	0.20	21.01	18	37	UFXA2W562YE155M
	6800	90×157	0.20	24.86	16	33	UFXA2W682YF157M
	8200	90×157	0.20	26.31	14	30	UFXA2W822YF157M
	10000	90×196	0.20	31.20	12	25	UFXA2W103YF196M
	12000	90×236	0.20	34.22	10	22	UFXA2W123YF236M

- 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.