

Parameters	U.M.	Symbol/Value	Notes
Expected lifetime	[hrs]	15.000	@rated voltage, temperature and ripple current
Climatic category		40/85/56	-40°C / +85°C / 85% Relative Humidity
Voltage	[V]	V _R	350 - 500V
Capacitance	[μF]	C	C ₁₀ rated value at t=0hrs
Capacitance tolerance	%	M = 20 %	Other capacitance on request as indicated in the data book
Series resistance	[mΩ]	ESR	ESR ₁₀ rated value at t=0hrs
Leakage Current	[mA]	I _l =0,004*C*V	I _{l10} rated value at t=0hrs
I Ripple	[A]	I _R	Ripple current @ rated parameters
		I _t =K _f *K _t *I _R	I _t ripple current at a given T
		K _f	Frequency Correlation Factor See table below
		K _t	Temperature Correlation Factor See table below
End of Life values		ΔC/C ₁₀ ≤ 30%	
		ESR ≤ 3*ESR ₁₀	
		I _l ≤ I _{l10}	
Surge Voltage	[V]	V _{surge} =1,1*V _R	≤450V
		V _{surge} =1,05*V _R	=500V

Ripple Current Coefficient

	D= Diameter	Hz	50	100	120	200	300	400	500	1000
K _f	D<63	V≤300	0.79	1.00	1.04	1.12	1.16	1.20	1.22	1.25
		V>300	0.76	1.00	1.04	1.17	1.28	1.35	1.39	1.45
	D>=63	V≤300	0.78	1.00	1.02	1.06	1.08	1.09	1.09	1.09
		V>300	0.72	1.00	1.03	1.14	1.24	1.29	1.32	1.37

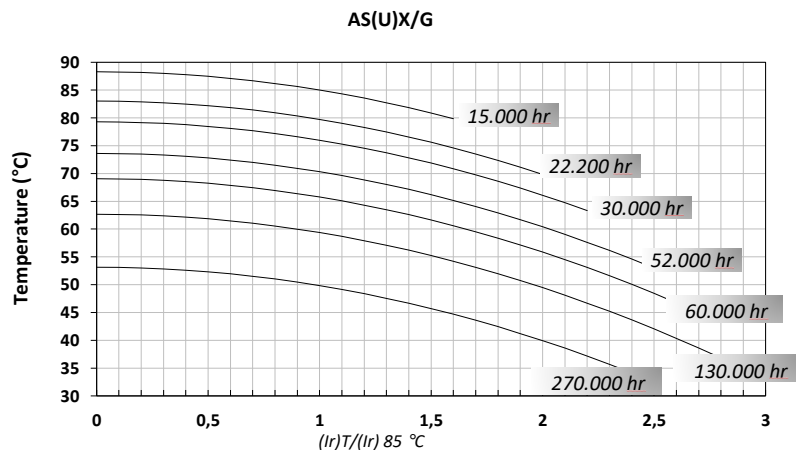
°C	40	55	65	75	85
K _t	2.10	1.80	1.60	1.30	1.00

Note: Superimposed alternating voltage summed to DC voltage must not exceed rated voltage, rated ripple current must not be exceeded and no reverse polarity is allowed

Ordering Code: Example – ASUX472M450DF1

AS	(U)	X	472	M	450	DF	1
Series	U=mounting stud	Terminals	C with multiplying factor:	Tolerance	V _R	Size	1=sleeve 0=no sleeve
	Void=flat bottom		1=x10, 2=x100, 3=x1.000,				

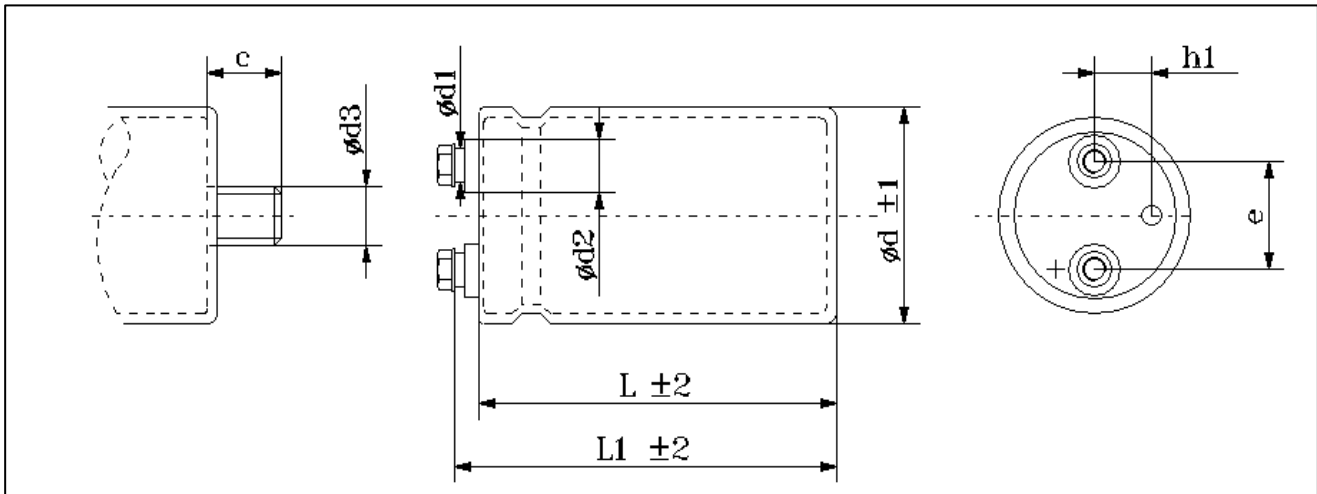
Expected Lifetime Vs Temperature and Ripple Current



	Capacitance	Case	Diam	Height	Tanδ	ESRmax typ		Zmax	Iripple @100Hz		Ordering Code
	[uF]@100Hz		[mm]	[mm]	[%]@100Hz	[mΩ]@100Hz	[mΩ]@10KHz	[A]@55°C	[A]@85°C	(U) for mounting stud	
350	680	BC	51	105	0,07	164	131	124	8,0	4,4	AS(U)M681M350BC1
	1000	BC	51	105	0,07	108	87	85	10,0	5,4	AS(U)M102M350BC1
	1500	CC	63	105	0,08	81	65	66	13,0	7,0	AS(U)M152M350CC1
	2200	DC	76	105	0,09	62	50	51	16,0	8,9	AS(U)M222M350DC1
	3300	DF	76	145	0,09	41	33	35	22,0	12,5	AS(U)M332M350DF1
	4700	DF	76	145	0,07	24	19	24	27,0	14,9	AS(U)M472M350DF1
	6800	DJ	76	222	0,10	23	19	20	39,0	21,7	AS(U)M682M350DJ1
400	680	BC	51	105	0,10	234	187	151	7,0	4,0	AS(U)M681M400BC1
	1000	CC	63	105	0,10	159	127	105	10,0	5,4	AS(U)M102M400CC1
	1500	DC	76	105	0,10	106	85	72	13,0	7,4	AS(U)M152M400DC1
	2200	DC	76	105	0,11	80	64	51	15,0	8,5	AS(U)M222M400DC1
	2200	DF	76	145	0,10	72	58	51	18,0	10,2	AS(U)M222M400DF1
	3300	DF	76	145	0,12	58	46	35	21,0	11,4	AS(U)M332M400DF1
	4700	DF	76	145	0,12	41	33	35	24,8	13,5	AS(U)M472M400DF1
6800	DJ	76	222	0,12	28	22	26	30,0	16,4	AS(U)M682M400DJ1	
450	1500	CC	63	105	0,10	106	80	60	9,5	6,8	AS(U)M152M450CC1
	2200	CC	63	105	0,12	87	65	49	10,5	7,5	AS(U)M222M450CC1
	3300	DC	76	105	0,12	58	43	36	14,3	10,2	AS(U)M332M450DC1
		DF	76	145	0,10	48	36	28	17,9	12,8	AS(U)M332M450DF1
	4700	DF	76	145	0,12	41	30	24	19,5	13,9	AS(U)M472M450DF1
		EC	90	105	0,12	41	30	25	21,8	15,6	AS(U)G472M450EC1
	5600	DF	76	145	0,12	34	27	29	30,0	16,4	AS(U)M562M450DF1
		DJ	76	222	0,13	37	30	28	31,0	17,2	AS(U)M562M450DJ1
	6800	DJ	76	222	0,12	28	21	17	28,3	20,2	AS(U)M682M450DJ1
		EF	90	145	0,12	28	21	17	26,2	18,7	AS(U)G682M450EF1
10000	DJ	76	222	0,12	19	14	20	32,5	22,8	AS(U)M103M450DJ1	
	EJ	90	222	0,12	19	14	12	37,7	26,9	AS(U)G103M450EJ1	
500	470	BB	51	83	0,10	339	271	254	5,2	2,9	AS(U)M471M500BB1
		BC	51	105	0,10	339	271	254	5,8	3,2	AS(U)M471M500BC1
	1000	BC	51	105	0,10	159	127	98	8,0	4,2	AS(U)M102M500BC1
	1500	DC	76	105	0,10	106	85	74	11,0	6,0	AS(U)M152M500DC1
	2200	DC	76	105	0,10	72	58	54	13,4	7,6	AS(U)M222M500DC1
		DF	76	145	0,10	72	58	47	15,0	8,3	AS(U)M222M500DF1
	3300	DF	76	145	0,10	48	39	27	16,0	9,1	AS(U)M332M500DF1
	3900	DF	76	145	0,10	41	32	22	18,3	11,2	AS(U)M392M500DF1
	4400	DF	76	145	0,10	35	28	2	23,7	13,5	AS(U)M442M500DF1
	4700	DF	76	145	0,08	27	22	18	27,0	15,4	AS(U)M472M500DF1
		EF	90	145	0,08	27	22	18	30,1	17,2	AS(U)G472M500EF1
	5600	EF	90	145	0,12	34	27	26	34,1	18,9	AS(U)G562M500EF1
	6800	EF	90	145	0,12	28	22	21	37,5	20,8	AS(U)G682M500EF1
10000	EJ	90	222	0,12	19	15	14	54,4	30,2	AS(U)G103M500EJ1	



Technical Drawing



Dimension, Quantity and Weight for Box

Case				Connections							Mounting Stud			Packaging		
Code	DxL (mm)	L1	h1	d1	d2	e	Terminal		Screw			Screw			Pcs Box	Weight Box (Kg).
							Code	Thread	Torque (Nm)	Length	d3	c	Torque (Nm)			
BB	51x83	89	13	13	18	22.2	M	M5	2,0	10	M12	16	10	30	5-7	
BC	51x105	111	13	13	18	22.2	M	M5	2,0	10	M12	16	10	30	6-9	
CC	63x105	111	16	13	18	28.6	M	M5	2,0	10	M12	16	10	20	6-8	
CF	63x145	151	19	13	18	28.6	M	M5	2,0	10	M12	16	10	20	9-10	
DC	76x105	111	19	13	18	31.8	M	M5	2,0	10	M12	16	10	12	6-8	
DF	76x145	151	19	13	18	31.8	M	M5	2,0	10	M12	16	10	12	8-14	
				18	23		G	M6	2,5							
DK	76x165	173	19	13	18	31.8	M	M5	2,0	10	M12	16	10	12	9-14	
				18	23		G	M6	2,5							
DG	76x200	207	19	13	18	31.8	M	M5	2,0	10	M12	16	10	12	9-13	
				18	23		G	M6	2,5							
DJ	76x222	227	19	13	18	31.8	M	M5	2,0	10	M12	16	10	8	9-12	
				18	23		G	M6	2,5							
DL	76x240	245	19	13	18	31.8	M	M5	2,0	10	M12	16	10	12	9-13	
				18	23		G	M6	2,5							
EC	90x105	111	19	18	23	31,8	G	M6	2,5	10	M12	16	10	6	7-9	
EF	90x145	151	19	18	23	31,8	G	M6	2,5	10	M12	16	10	6	9-11	
EG	90x200	207	19	18	23	31,8	G	M6	2,5	10	M12	16	10	6	9-11	
EJ	90x222	227	19	18	23	31,8	G	M6	2,5	10	M12	16	10	6	8-12	
EL	90x240	245	19	18	23	31,8	G	M6	2,5	10	M12	16	10	6	9-13	

All dimensions in mm, torque in Nm, weight in kg

