

Parameters	U.M.	Symbol/Value	Notes
Expected lifetime	[hrs]	6.000	@rated voltage, temperature and ripple current
Climatic category		40/85/56	-40°C / +85°C./ 85% Relative Humidity
Voltage	[V]	$V_R$	550 - 600V
Capacitance	[ $\mu$ F]	C	$C_{10}$ rated value at t=0hrs
Capacitance tolerance	%	M = 20 %	Other capacitance on request as indicated in the data book
Series resistance	[m $\Omega$ ]	ESR	ESR <sub>10</sub> rated value at t=0hrs
Leakage Current	[mA]	$I_f=0,004 \cdot C \cdot V$	$I_{f10}$ rated value at t=0hrs
I Ripple	[A]	$I_R$	Ripple current @ rated parameters
		$I_t=K_f \cdot K_t \cdot I_R$	$I_t$ 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		$\Delta C/C_{10} \leq 30\%$	
		$ESR \leq 3 \cdot ESR_{10}$	
		$I_f \leq I_{f10}$	
Surge Voltage	[V]	$V_{surge}=1,1 \cdot V_R$	$\geq 500V$
		$V_{surge}=1,05 \cdot V_R$	

**Ripple Current Coefficient**

Hz	50	100	120	200	300	400	500	1000
Kf	0.78	1.00	1.02	1.06	1.08	1.09	1.32	1.37

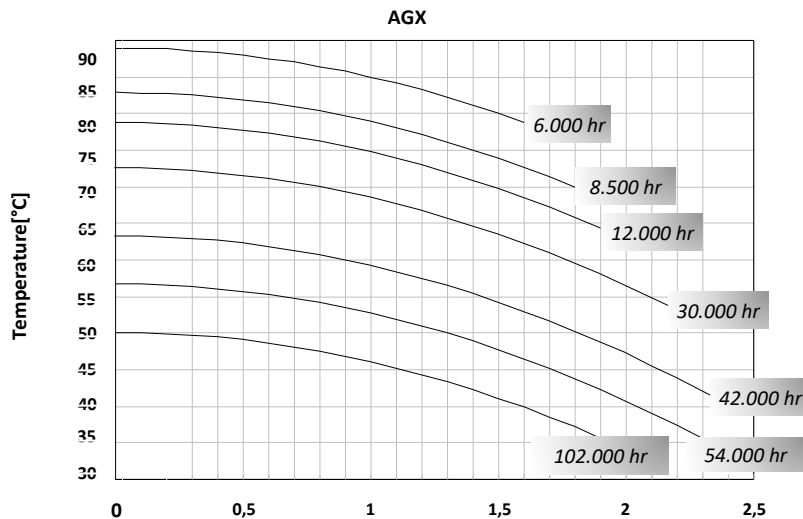
°C	40	55	65	75	85
Kt	1.80	1.65	1.45	1.25	1.00

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 – AGUX472M550DF1**

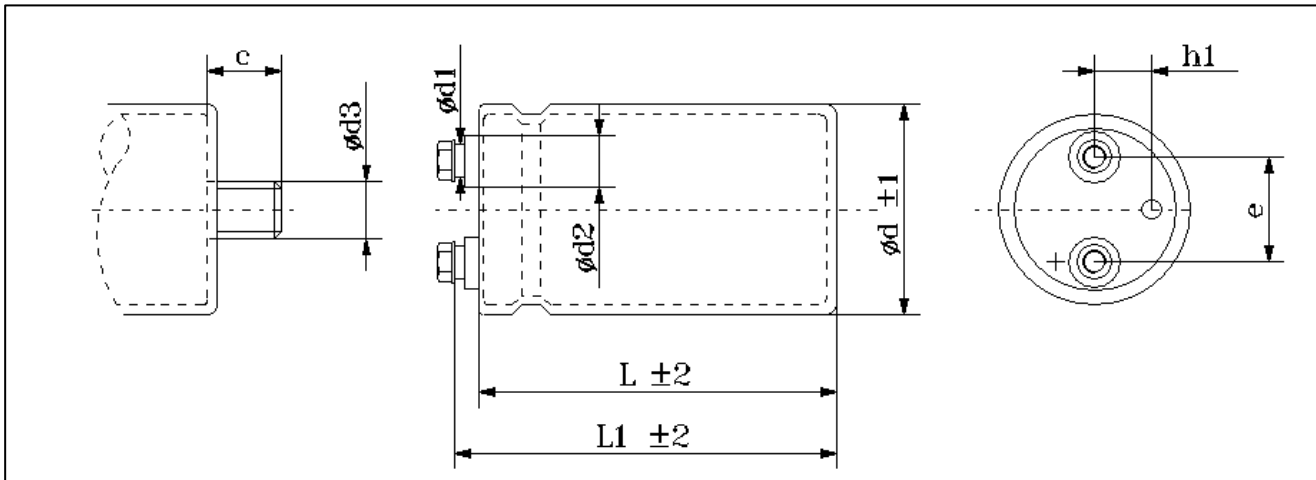
AG	(U)	X	472	M	550	DF	1
Series	U=mounting stud Void=flat bottom	Terminals	C with multiplying factor: 1=x10, 2=x100, 3=x1.000,	Tolerance	$V_R$	Size	1=sleeve 0=no sleeve

**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	[mΩ]@10KHz	[A]@55°C	[A]@85°C	(U) for mounting stud
<b>550</b>	1000	BB	51	83	0,18	201	167	150	6,9	4.2	AG(U)X102M550BB1
	1500	BC	51	105	0,18	141	118	106	9,2	5.6	AG(U)X152M550BC1
	2200	CC	63	105	0,18	98	79	73	12,4	7.5	AG(U)X222M550CC1
	3300	DC	76	105	0,18	68	56	51	17,3	10.5	AG(U)X332M550DC1
	4700	DF	76	145	0,18	32	27	24	27,2	16.5	AG(U)X472M550DF1
	5600	EF	90	145	0,18	26	21	20	33,5	20.3	AG(U)X562M550EF1
	6800	EF	90	145	0,18	23	18	17	36,5	22.1	AG(U)X682M550EF1
	6800	DJ	76	222	0,18	23	18	17	38,6	23.4	AG(U)X682M550DJ1
	8200	EJ	90	222	0,18	18	15	14	48,2	29.2	AG(U)X822M550EJ1
	10000	EJ	90	222	0,18	15	13	11	52,8	32.0	AG(U)X103M550EJ1
	12000	EL	90	240	0,18	14	11	10	58,1	35.2	AG(U)X123M550EL1
<b>600</b>	820	BB	51	83	0,15	212	177	159	6,8	4.10	AG(U)X821M600BB1
	1000	BC	51	105	0,15	165	137	124	8,4	5.07	AG(U)X102M600BC1
	1200	BC	51	105	0,15	144	120	108	9,0	5.43	AG(U)X122M600BC1
	1500	CC	63	105	0,15	126	105	95	10,9	6.59	AG(U)X152M600CC1
	2200	CC	63	105	0,15	94	78	71	12,6	7.63	AG(U)X222M600CC1
	3300	DC	76	105	0,15	60	49	44	20,1	12.2	AG(U)X332M600DC1
	3900	DF	76	145	0,15	35	29	27	25,9	15.7	AG(U)X392M600DF1
	4700	DF	76	145	0,15	31	26	23	27,7	16.8	AG(U)X472M600DF1
	5600	EF	90	145	0,15	25	21	19	35,5	21.5	AG(U)X562M600EF1
	6800	DJ	76	222	0,15	21	17	16	39,9	24.2	AG(U)X682M600DJ1
	8200	EJ	90	222	0,15	17	14	13	49,7	30.1	AG(U)X822M600EJ1
10000	EL	90	240	0,15	14	12	10	56,4	34.2	AG(U)X103M600EL1	



**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	X	M5	2,0	10	M12	16	10	30	5-7
BC	51x105	111	13	13	18	22.2	X	M5	2,0	10	M12	16	10	30	6-9
CC	63x105	111	16	13	18	28.6	X	M5	2,0	10	M12	16	10	20	6-8
CF	63x145	151	19	13	18	28.6	X	M5	2,0	10	M12	16	10	20	9-10
DC	76x105	111	19	13	18	31.8	X	M5	2,0	10	M12	16	10	12	6-8
DF	76x145	151	19	13	18	31.8	X	M5	2,0	10	M12	16	10	12	8-14
				18	23		G	M6	2,5						
DK	76x165	173	19	13	18	31.8	X	M5	2,0	10	M12	16	10	12	9-14
				18	23		G	M6	2,5						
DG	76x200	207	19	13	18	31.8	X	M5	2,0	10	M12	16	10	12	9-13
				18	23		G	M6	2,5						
DJ	76x222	227	19	13	18	31.8	X	M5	2,0	10	M12	16	10	8	9-12
				18	23		G	M6	2,5						
DL	76x240	245	19	13	18	31.8	X	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

