

High Performance - 85°C - High Voltage – Special Design – Long Life **AGC/AGS – 6.000 hrs – 85°**

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	[μ 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 Ω]	ESR	ESR ₁₀ 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]	$V_{surge}=1,1 \cdot V_R$	>500V
		$V_{surge}=1,05 \cdot V_R$	

Ripple Current Coefficient

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

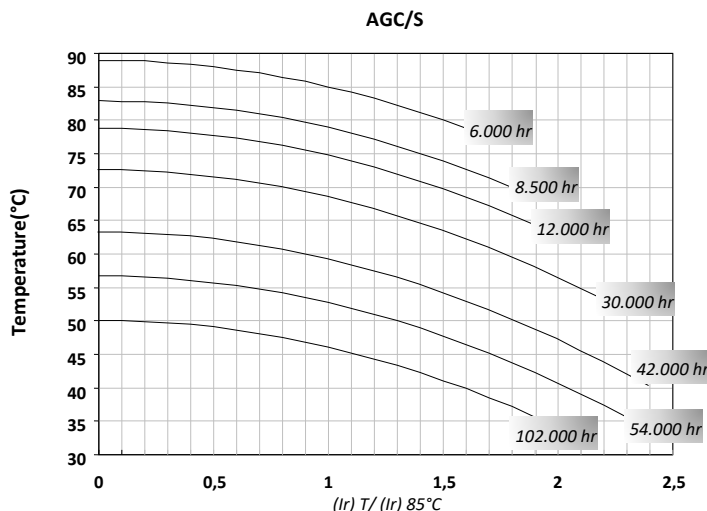
°C	40	55	65	75	85
Kt	1.80	1.65	1.45	1.25	1.00

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 – AGS681M550PG1

AGS	681	M	550	PG	1
Series	C with multiplying factor: 1=x10, 2=x100, 3=x1.000,	Tolerance	V_R	Size	1=sleeve 0=no sleeve

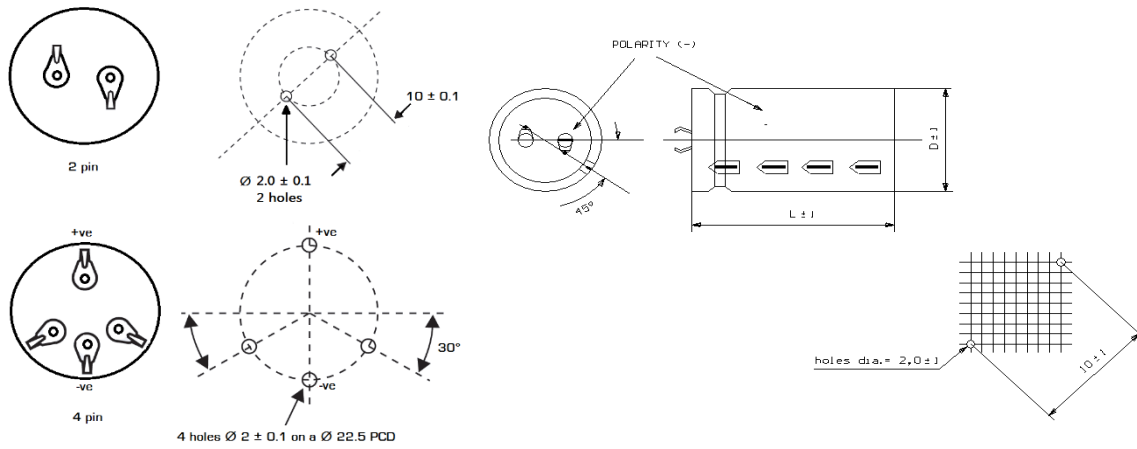
Expected Lifetime Vs Temperature and Ripple Current



	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	*=C, 2Pins S, 4 Pins
550	150	MB	30	40	0,19	1066	888	800	1,8	1.10	AG*151M550MB1
	220	MC	30	50	0,19	758	633	568	2,1	1.30	AG*221M550MC1
	220	NB	35	40	0,19	767	639	575	2,1	1.30	AG*221M550NB1
	270	NC	35	50	0,19	602	499	452	2,6	1.60	AG*271M550NC1
	330	NN	35	60	0,19	492	410	369	3,2	1.95	AG*331M550NN1
	390	PC	40	50	0,19	440	367	330	3,5	2.15	AG*391M550PC1
	470	PN	40	60	0,19	365	304	273	4,0	2.45	AG*471M550PN1
	560	PN	40	60	0,19	330	275	247	4,2	2.55	AG*561M550PN1
	680	PG	40	100	0,19	233	194	175	5,9	3.60	AG*681M550PG1
	680	QE	45	60	0,19	266	221	199	5,0	3.05	AG*681M550QE1
	820	PG	40	100	0,19	210	175	157	6,4	3.85	AG*821M550PG1
	1000	QG	45	100	0,19	172	144	130	7,4	4.50	AG*102M550QG1
600	150	MB	30	40	0,15	1022	851	766	1,9	1.15	AG*151M600MB1
	220	NB	35	40	0,15	727	606	545	2,4	1.45	AG*221M600NB1
	270	NC	35	50	0,15	592	494	444	2,8	1.70	AG*271M600NC1
	330	NN	35	60	0,15	470	392	353	3,1	1.90	AG*331M600NN1
	330	PC	40	50	0,15	484	399	363	3,2	1.95	AG*331M600PC1
	390	PN	40	60	0,15	407	339	305	3,6	2.20	AG*391M600PN1
	470	PN	40	60	0,15	354	295	265	4,2	2.55	AG*471M600PN1
	560	QN	45	60	0,15	283	236	212	4,9	2.95	AG*561M600QN1
	680	PG	40	100	0,15	233	192	175	6,0	3.65	AG*681M600PG1
	820	PG	45	100	0,19	191	159	143	6,9	4.20	AG*821M600PG1



Technical Drawing



Dimension, Quantity and Weight for Box

Case		Connections			Packaging	
Code	DxL (mm)	PINS			Pcs/Box	Weight/Box (Kg)
		AGC	AGS	Lenght		
MB	30x40	2		6.3	254	4-6
MC	30x50	2		6.3	254	4-6
NB	35x40	2	4	6.3	100	6-8
NC	35x50	2	4	6.3	100	6-8
NN	35x60	2	4	6.3	100	5-7
NE	35x75	2	4	6.3	50	6-8
PB	40x40	2	4	6.3	126	9-10
PC	40x50	2	4	6.3	126	9-10
PN	40x60	2	4	6.3	63	9-10
PE	40x75		4	6.3	63	7-9
PG	40x100		4	6.3	63	9-10
PH	40x105		4	6.3	48	8-10
QC	45x50		4	6.3	96	6-8
QN	45x60		4	6.3	48	6-8
QE	45x75		4	6.3	48	7-9
QG	45x100		4	6.3	48	8-10
QH	45x105		4	6.3	48	8-10
RE	50x75		4	6.3	48	8-10
RG	50x100		4	6.3	48	8-10
RH	50x105		4	6.3	48	8-10

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

