

Parameters	U.M.	Symbol/Value	Notes
Expected lifetime	[hrs]	5.000	@rated voltage, temperature and ripple current
Climatic category		40/105/56	-40°C / +105°C / 85% Relative Humidity
Voltage	[V]	V _R	200 - 450V
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 _f =0,004*C*V	I _{f10} 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 _f ≤ I _{f10}	
Surge Voltage	[V]	V _{surge} =1,1*V _R	≤450V
		V _{surge} =1,05*V _R	

Ripple Current Coefficient

	Hz	50	100	300	400	500	>1000
Kf	V>160	0.88	1.00	1.20	1.25	1.35	1.40

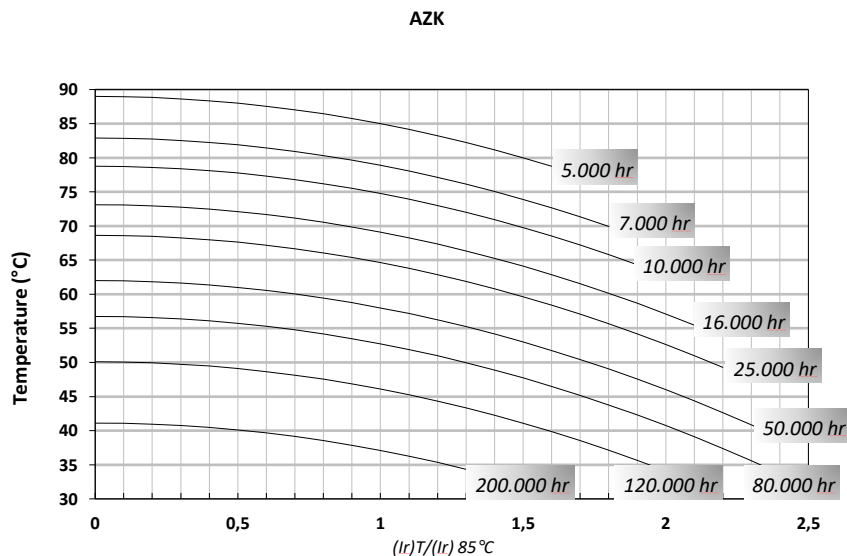
°C	50	65	75	85	95	105
Kt	2.40	2.20	2.10	1.80	1.30	1.00

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 – AZK681M450NB1

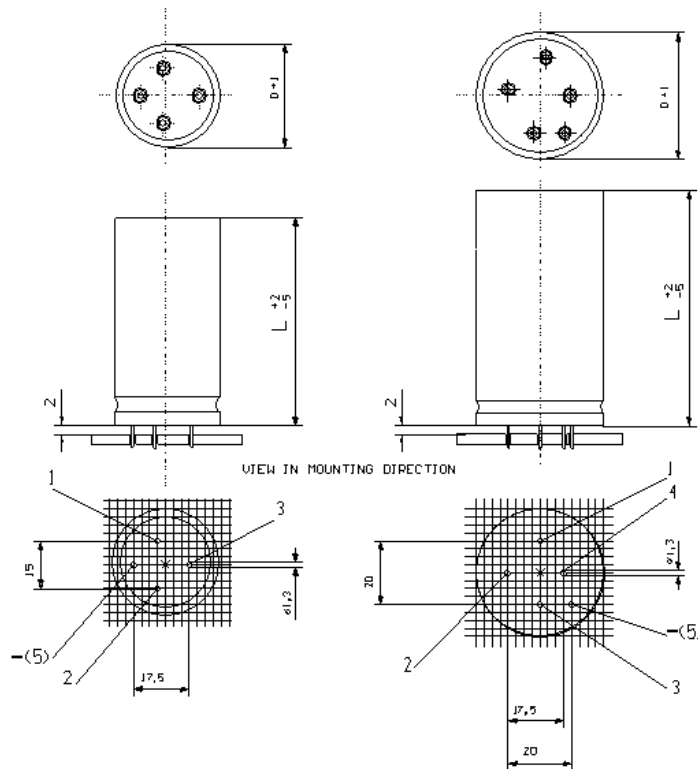
AZK	681	M	450	NB	1
Series	C with multiplying factor: 1=x10, 2=x100, 3=x1.000,	Tolerance	V _R	Size	1=sleeve 0=no sleeve

Expected Lifetime Vs Temperature and Ripple Current



	Capacitance	Case	Diam	Height	Tanδ	ESRmax typ		Zmax	Iripple @100Hz		Ordering Code
	[μF]@100Hz		[mm]	[mm]	[%]@100Hz	[mΩ]@100Hz	[mΩ]@10KHz	[A]@85°C	[A]@105°C	AZK	
200	470	NB	35	40	0,10	271	217	203	3,2	1,8	AZK471M200NB1
	680	NC	35	50	0,10	187	150	141	4,2	2,3	AZK681M200NC1
	1000	NC	35	50	0,10	127	102	96	5,1	2,8	AZK102M200NC1
	1500	NE	35	75	0,10	85	68	64	7,4	4,1	AZK152M200NE1
		PC	40	50	0,10	85	68	64	6,7	3,7	AZK152M200PC1
	2200	PE	40	75	0,10	58	46	43	11,0	6,1	AZK222M200PE1
3300	PG	40	100	0,10	39	31	29	13,5	7,5	AZK332M200PG1	
250	470	NB	35	40	0,10	271	217	203	2,9	1,6	AZK471M250NB1
	680	NB	35	40	0,10	187	150	141	3,8	2,1	AZK681M250NB1
	1000	PC	40	50	0,10	127	102	96	5,5	3,1	AZK102M250PC1
	1500	PE	40	75	0,10	85	68	64	8,0	4,4	AZK152M250PE1
	2200	PG	40	100	0,10	58	46	43	11,0	6,1	AZK222M250PG1
400	330	NB	35	40	0,10	386	309	290	2,7	1,5	AZK331M400NB1
	470	NC	35	50	0,10	271	217	203	3,2	1,8	AZK471M400NC1
	680	NE	35	75	0,10	187	150	141	4,1	2,3	AZK681M400NE1
		PC	40	50	0,10	187	150	141	4,2	2,3	AZK681M400PC1
	1000	NE	35	75	0,10	127	102	96	6,1	3,4	AZK102M400NE1
		PE	40	75	0,10	127	102	96	5,1	2,8	AZK102M400PE1
		PG	40	100	0,10	127	102	96	5,5	3,1	AZK102M400PG1
	1500	PG	40	100	0,10	85	68	64	8,0	4,4	AZK152M400PG1
450	220	NB	35	40	0,10	579	463	434	2,0	1,1	AZK221M450NB1
	330	NC	35	50	0,10	386	309	290	2,9	1,6	AZK331M450NC1
	470	NC	35	50	0,10	271	217	203	3,5	1,9	AZK471M450NC1
	560	PC	40	50	0,10	227	182	171	4,1	2,3	AZK561M450PC1
		NE	35	75	0,10	227	182	171	4,5	2,5	AZK561M450NE1
	680	NE	35	75	0,10	187	150	141	5,0	2,8	AZK681M450NE1
		PE	40	75	0,10	187	150	141	5,4	3,0	AZK681M450PE1
	1000	PG	40	100	0,10	127	102	96	7,4	4,1	AZK102M450PG1
	1200	PG	40	100	0,10	106	85	80	8,1	4,5	AZK122M450PG1



Technical Drawing

Dimension, Quantity and Weight for Box

Case		Connections			Packaging	
Code	DxL (mm)	PINS			Code	DxL (mm)
		AZK		Lenght		
NB	35x40	4		6.3	100	6-8
NC	35x50	4		6.3	100	6-8
NN	35x60	4		6.3	100	5-7
NE	35x75	4		6.3	50	6-8
PB	40x40		5	6.3	126	9-10
PC	40x50		5	6.3	126	9-10
PN	40x60		5	6.3	63	9-10
PE	40x75		5	6.3	63	7-9
PG	40x100		5	6.3	63	9-10

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

