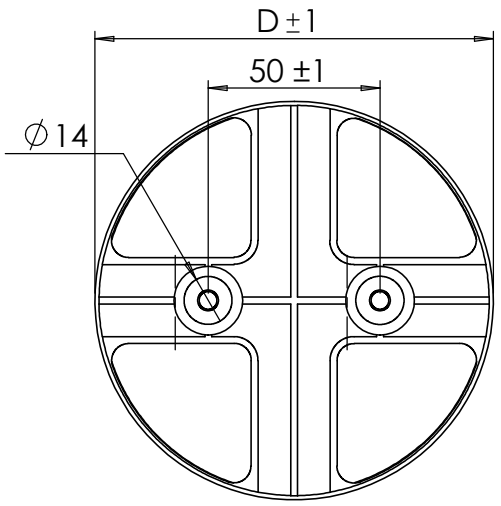
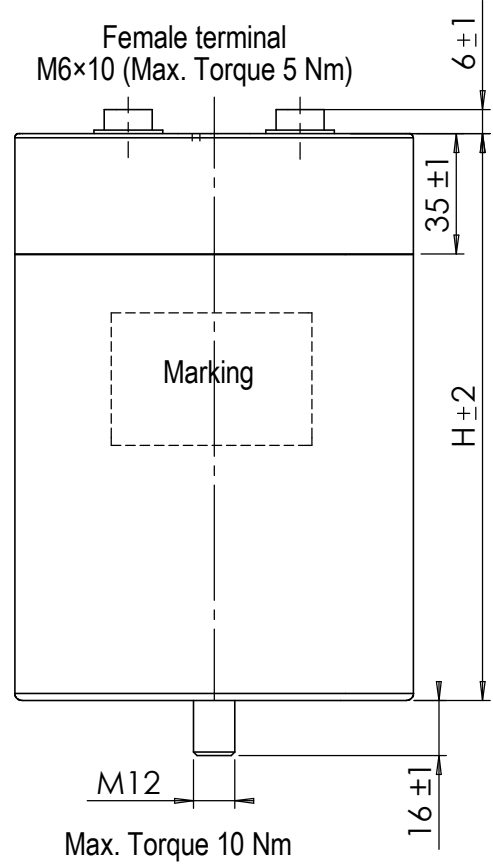


Unless otherwise specified apply the following tolerances

to 6	±0,1
above to 6 to 30	±0,2
above to 30 to 100	±0,3
above to 100 to 300	±0,5
above to 300 to 1000	±0,8
above to 1000 to 2000	±1,2
above to 2000 to 4000	±2
above 4000	±3



Ordering information: KNG3047 2295µF 10% 700V DC dim.: DxL 116x220

Technical data			
Standard	IEC 61071		
Rated capacitance (C _n)	2295 µF		
Capacitance tolerance	±10 %		
Rated DC voltage	700 V		
Maximal current (I _{max})	100 A		
Maximal du/dt	5 V/µs		
Maximum peak current (I)	11,6 kA		
Maximum surge current (I _s)	34,9 kA		
Tangent of the loss angle (tan(δ ₀))	2 x 10 ⁻⁴		
Equivalent series inductance (ESL)	80 nH		
Equivalent series resistance (ESR)	1,3 mΩ @ 1 kHz 1,5 mΩ @ 10 kHz		
Operating temperature (T _{min} to T _{max})	-40 °C to 85 °C		
Storage temperature (T _{storage})	-40 °C to 85 °C		
Max. hot spot temperature (T _{hs})	85 °C		
Thermal resistance (R _{th})	1,7 °K/W		
Maximum Current and Power losses versus Ambient temperature (T _{amb}) at T _{hs} = 85 °C, 10 kHz	T _{amb} [°C]	P _{max} [W]	I _{max} [A]
	40	26,5	120,0
	50	20,6	120,0
	60	14,7	106,3
	70	8,8	82,3
80	2,9	47,5	
Altitude	Up to 4000 m		
Expected life time	See the attached graph on page 2		
Failure in time			
Test voltage			
Terminal to terminal (U _{BB})	1050 V, 10 s		
Terminal to case (U _{BC})	4000 V, 2 s		
Mechanical parameters			
Diameter (D)	116 mm		
Height (H)	220 mm		
Protection	IP00		
Weight	~ 3,1 kg		
Clearance distance	36 mm		
Creepage distance	40 mm		
Safety device	No internal protection device		
Terminals	Female M6X10 (Maximal torque 5 Nm)		
Material parameters			
Dielectric	Self healing metallized polypropylene film		
Filling	Dry resin, UL 94, V0		
Case	Aluminium		
Cover	Plastic, UL 94, V0		

All transfer to third person or missusage for unauthorized purposes is strictly forbidden by Author's Rights

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material		protection		standard		issue				
changes	1	2	3	4	5	6	7	8	9	10
request.										
date										
signature										
	date	signature	name							
design.	4.9.2020	D. Peganc	<h1>Capacitor KNG3047</h1>							
approved	4.9.2020	J. Dermol								
stand.										

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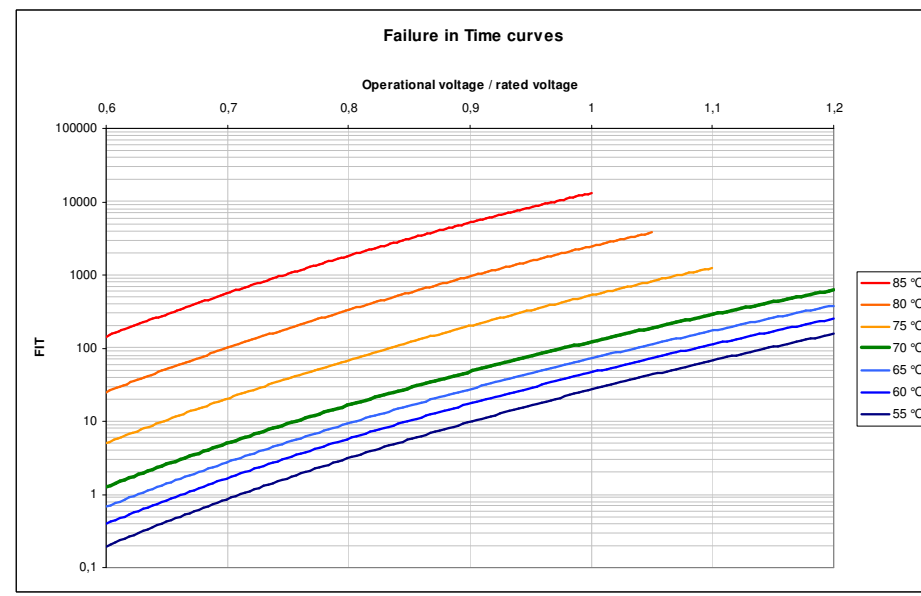
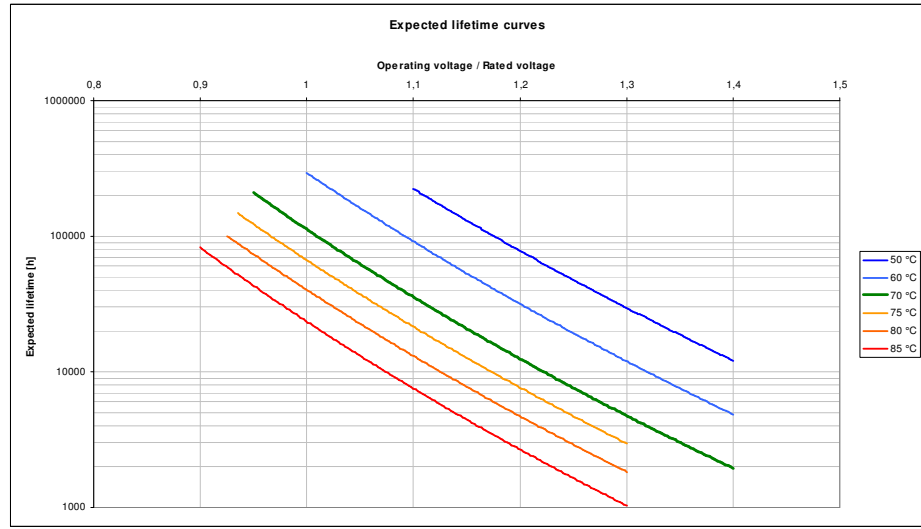
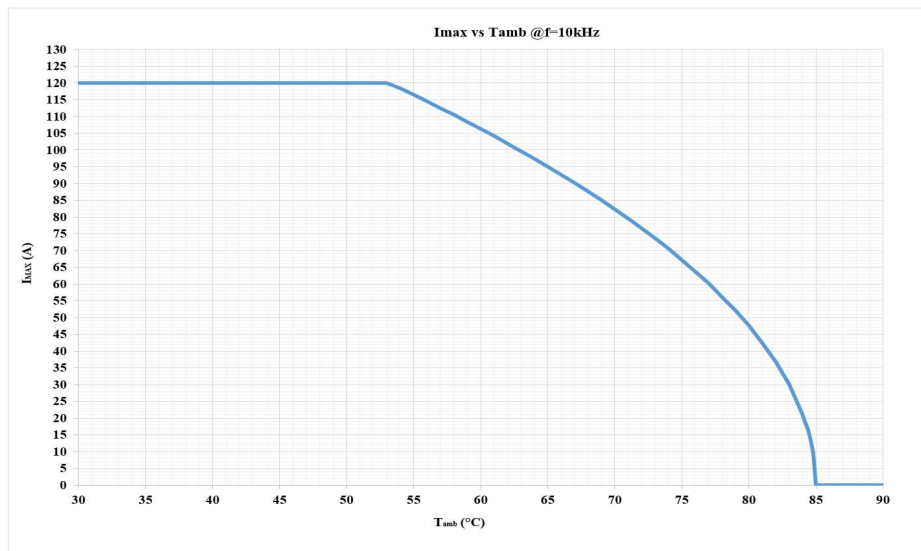
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identification No.

scale	page
	1/2

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material		protection		standard		issue				
changes request.	1	2	3	4	5	6	7	8	9	10
date										
signature										
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design.	4.9.2020	D. Peganc	<h1>Capacitor KNG3047</h1>							
approved	4.9.2020	J. Dermol								
stand.										

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