

DC Link Film Capacitors

MKP Film capacitor 1000 μ F @ 600Vdc

Description

Part Number: C4EEHNX7100BAUK

MKP Film capacitor 1000 μ F @ 600Vdc

Standards

Electrical characteristics

Rated capacitance	Cn	1000	μ F ($\pm 10\%$)
Rated DC voltage	Vn	600	Vdc
Peak voltage	Vpk	750	Vdc 60 sec
Max. RMS current, 10KHz	Irms	100	Arms @ T amb = 85°C and T cooler = max. 70°C
Max. peak RMS current, 10KHz	Ipk	200	Arms 30sec
Equivalent series resistance @ 1 KHz	ESR	<0.9	m Ω
Equivalent series inductance	ESL	<30	nH
Max. pulse rise time	dV/dt	20	V/ μ s

Thermal Characteristics

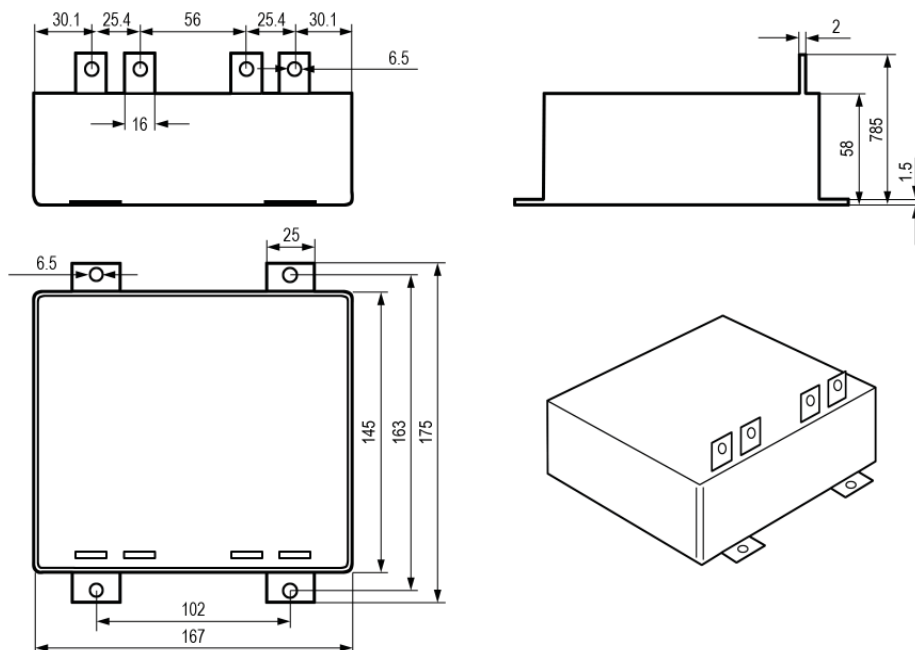
Min. operating temperature	-40°C
Max. operating temperature	+105°C Ambient, +90°C internal hotspot (cold plate cooling)
Storage temperature	-40/+85°C
Maximum altitude without de-rating	2200m

Test Methods & Performances

Voltage test between terminals @ 25°C	Vt-t	780	V/10s
Voltage test terminals to case @ 50Hz	Vt-c	2500	V/1min.

Life Expectancy & Failure Quota

Life expectancy @ Vn @ T _{hs} = 90°C	Lexp	20000 hours	T amb = 85°C and T cooler = max. 70°C
Failure quota	300	FIT	

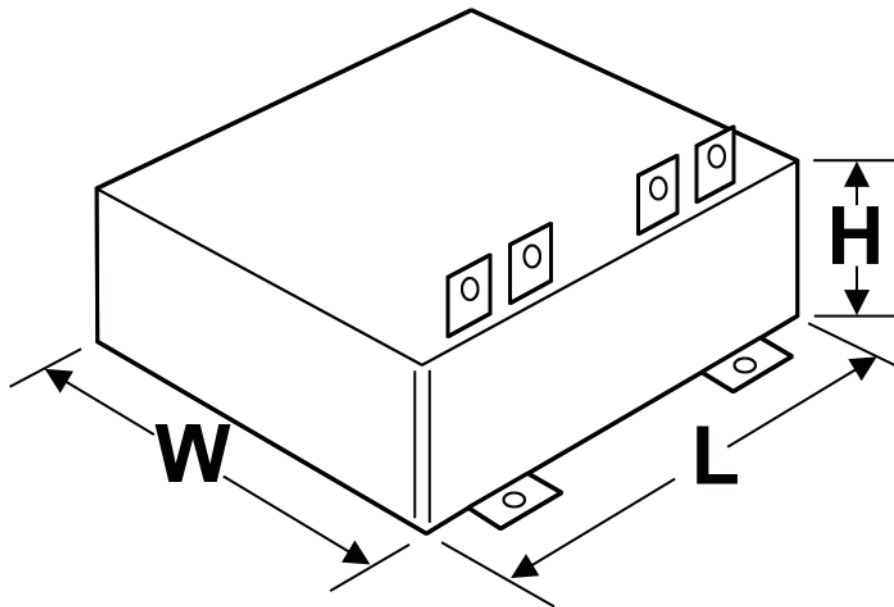


Construction

Dielectric	Metalized polypropylene, self-healing
Winding	Non inductive
Filling	Filled with thermosetting epoxy resin
Case construction	Painted steel sheet case

Dimensions

Width	W	145 (±1) mm
Height	H	58 (±1) mm
Length	L	167 (±2) mm
Approximate weight		1.1 Kg



Mounting & Terminations

Mounting brackets	N.4 fixing points 1.5 x 25 x 15 mm with hole Φ 6.5 mm
Terminations	4 x copper plate 2 x 16 x 20.5 mm. with Φ 6.5 mm; polarity 2 (-) and 2 (+)

Mounting Position Bottom surface placed on the cooler