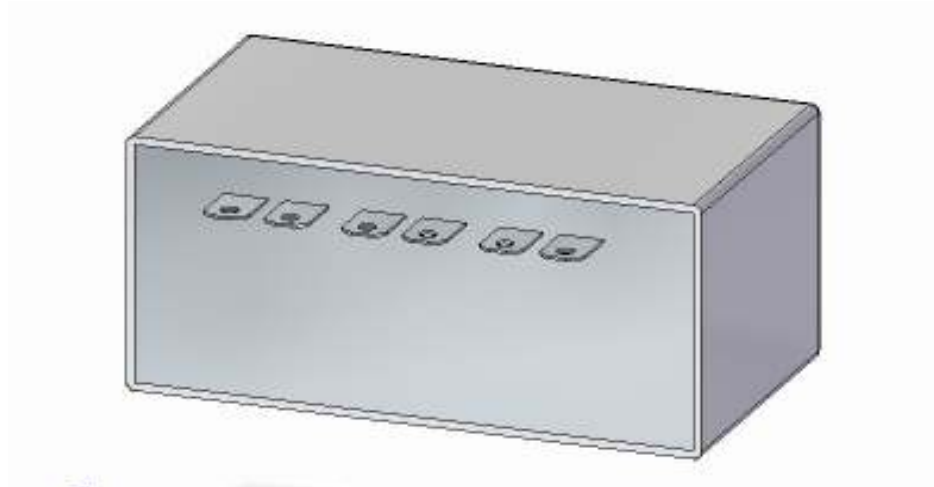


## DATA SHEET



### Customer

Customer part number  
 Electrical specification  
 Mechanical drawing

### Multiples

### Kemet

Kemet part number  
 Description  
 Circuital application

**C4EEOMX7100AASK**  
**MKP Film capacitor 1000 µF @ 900Vdc**

### Standards

IEC 61071:2007 and VDE 0560 part 120/121

### Electrical characteristics

$C_N$	µF	1000	
Tolerance	± %	10	
$I_{rms}$	A	100	70 % of lifetime, 85°C
$I_{rms}$	A	170	29 % of lifetime, 85°C
$I_{rms}$	A	40	1% of lifetime, 105°C
$I_{rms}$	A	260	< 1% , Start up condition, 55°C
$U_N$	V	900	
$U_{peak}$	V	1000	
$I_{peak}$	kA	12	
$(dv/dt)_{max}$	V/µsec	12	
$(dv/dt)_{surge}$	V/µsec	19	
$R_{ins}$	MΩ	> 100	in any condition
$L_s$	nH	< 35	
$tg\delta_0$	* 10E-3	0,2	
$U_{iso}$	V	1000	

### Thermal characteristics

T <sub>amb</sub>	°C	-40 +105
T <sub>sto</sub>	°C	-55 +105
Cold Plate	°C	-40 + 85
Cooling:	Capacitor placed on a cooler set at max 85°C. The cooler has to be able to absorb at least 12 W.	

### Life expectancy

L <sub>op</sub>	hours	≥ 50 000	@ 85°C , Un = 750 Vdc (with C <sub>min</sub> = 800 µF) following the duty cycle in current (avg HS temperature ≤ 95°C)
-----------------	-------	----------	--

### Test Conditions

Voltage Test Between Terminals:	1200 Vdc / 60 sec
Voltage Test Terminal-Case	2500 Vac / 1 min

### Mounting & Terminations

Terminals	6 x copper plate 1 x 16 x 22.5 with Ø 6.5mm; 3 (+) and 3 (-) with M6x15	
Creepage distance T-T	mm	> 5 @ CTI ≥ 600
Creepage distance T-C	mm	> 10 @ CTI ≥ 600
Mounting	Necessary having the lower surface placed on cooler	

### Construction

Dielectric	Metalized polypropylene, self-healing
Winding	Non inductive
Filling	Filled with solid PU polyurethane resin
Case construction	PBT according to V0 UL94
Mounting position	Bottom surface placed on the cooler

Approximate weight	Kg	3
--------------------	----	---

### Mechanical layout

According to drawing in page 3

#### General Disclaimer

All product specifications, statements, information and data given herein are believed to be accurate and reliable, but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute – and we specifically disclaim – any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application.

#### Prototype Sample Disclaimer

The Customer acknowledges the following limitations of the prototype samples:

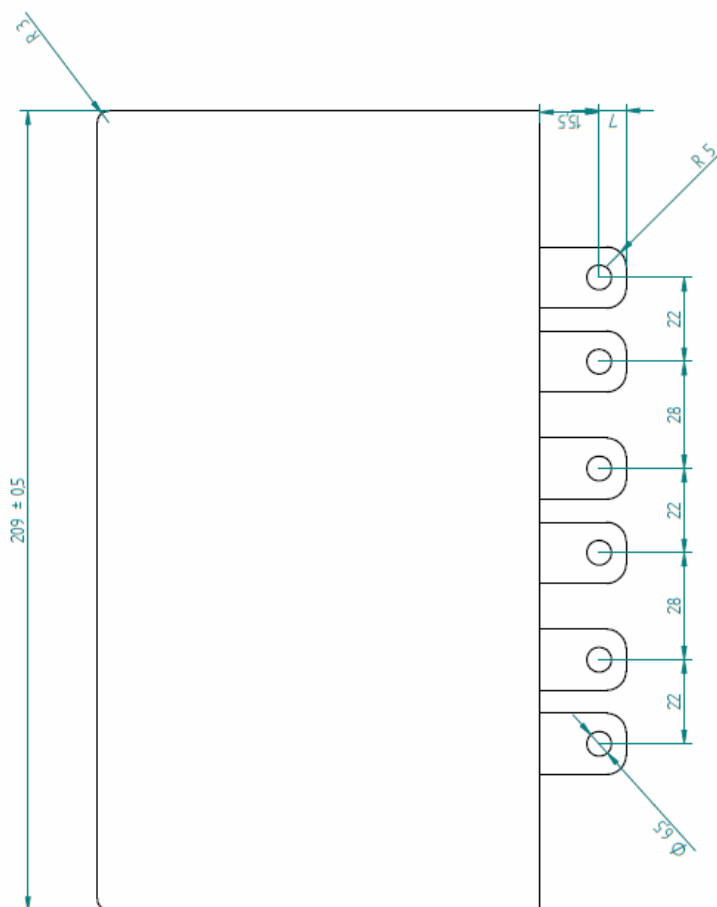
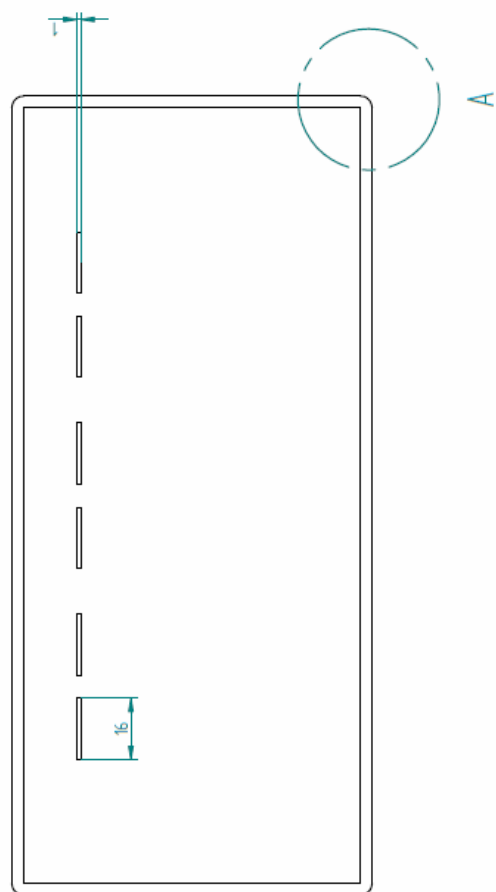
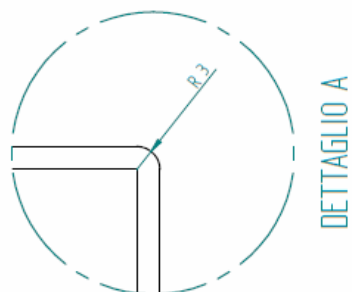
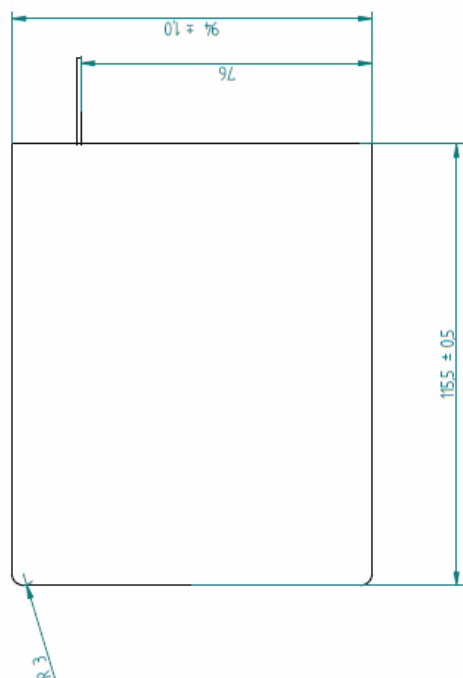
- (1) Prototype samples are manufactured from preliminary designs and manufacturing processes; may not represent final designs; have not been released for commercial use and are not subject to the same quality control procedures applicable to released products.
- (2) Prototype samples are not qualified parts and are provided "as-is" by KEMET Electronics Corporation, which specifically disclaims any and all warranties and guarantees, explicit or implied, including, without limitation, the warranties of merchantability and fitness for a particular purpose or use.
- (3) Prototype samples are not intended for commercial use; are provided for engineering evaluation only and are not recommended for use in the Customer's production line.
- (4) The Customer assumes the risk of any and all uses that the Customer makes of the prototype samples.

#### Edition

The present data sheet replaces and supersedes any former one released by KEMET.

KEMET's product warranty is set forth at [www.kemet.com](http://www.kemet.com) under Terms and Conditions of Sale.

COPYRIGHT KEMET ELECTRONICS CORPORATION 2013, all rights reserved.



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

KEMET:

C4EEOMX7100AASK