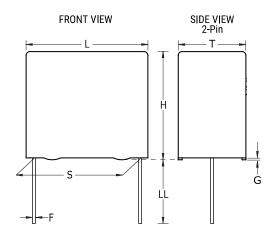




F862, Film, Metallized Polypropylene, Automotive Safety, 1 uF, 10%, 630 VDC, 310 VAC (X2), 110°C, 22.5 mm



Click	here	for	the	3D	model
CIICK	11010	101	uic	$^{-}$	model

General Information		
Series	F862	
Dielectric	Metallized Polypropylene	
Style	Radial	
Features	MKP EMI, Aumotive Grade, Harsh Environmental Conditions, Heavy Duty	
RoHS	Yes	
Termination	Cut (Tinned Wire)	
Lead	Cut/Short	
Safety Class	X2	
Qualifications	ENEC, UL, cUL, CQC, AEC- Q200	
AEC-Q200	Yes	
THB Performance	Yes	
Typical Component Weight	9.958 g	
Miscellaneous	ClimCat: 40/110/56/B.	
Shelf Life	104 Weeks	

Dimensions	
L	26mm -0.5mm
Н	22mm -0.5mm
Т	13mm -0.5mm
S	22.5mm +/-0.4mm
LL	3.2mm +0.3/-0.2mm
F	0.8mm +/-0.05mm
G	0.5mm NOM

Packaging Specifications	
Packaging	Pizza, Box
Packaging Quantity	300

Specifications	
Capacitance	1uF
Tolerance	10%
Voltage DC	630 VDC
Voltage AC	310 VAC (X2)
Temperature Range	-40/+110°C
Rated Temperature	110°C
Dissipation Factor	0.2% 1kHz
Insulation Resistance	10 GOhms
Max dV/dt	200 V/us

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. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.

Generated 05/04/2025 © 2006 - 2025 YAGEO

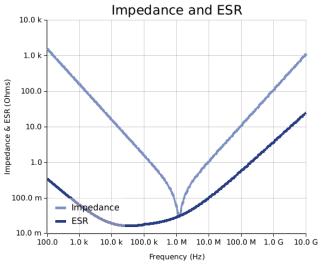


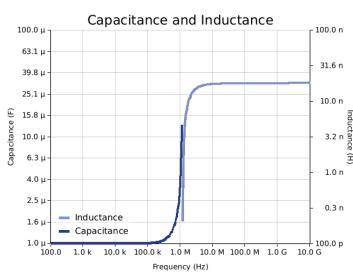


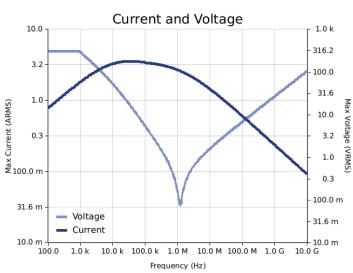
F862, Film, Metallized Polypropylene, Automotive Safety, 1 uF, 10%, 630 VDC, 310 VAC (X2), 110°C, 22.5 mm

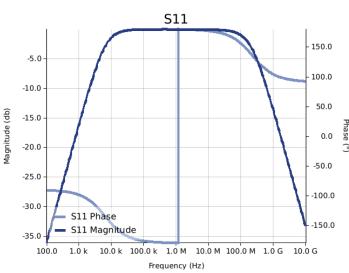
## **Simulations**

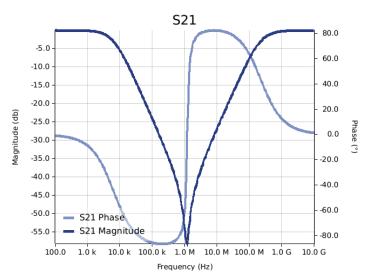
For the complete simulation environment please visit K-SIM.











Generated 05/04/2025 © 2006 - 2025 YAGEO



## F862DU105K310ZL32K

F862, Film, Metallized Polypropylene, Automotive Safety, 1 uF, 10%, 630 VDC, 310 VAC (X2), 110°C, 22.5 mm

## These are simulations.

This is not a specification!

The responses shown represent the typical response for each part type. Specific responses may vary, depending on manufacturing variation affects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.

The responses shown do not represent a specified or implied maximum capability of the device for all applications.

- The ESR used for ripple "Ripple Current/Voltage vs. Frequency" plots is the ESR at ambient temperature.

- The ESR used for ripple Ripple Currenty votage vs. rrequency plots is unleast at an interact temperature.
  The ESR in the "Temperature Rise vs. Ripple Current" plots is adjusted to each incremental temperature rise before the power and ripple current is calculated.
  The effects shown herein are based on measured data from a multiple part sample of the parts in question.
  Ripple capability of this device will be factored by thermal resistance (Rth) created by circuit traces (addi affects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.
  The peak voltages generated in the "Temperature Rise vs. Combined Ripple Currents" plot are calculated for each frequency and are not combined with voltages
- generated at any other harmonics.

   Please consult with the catalog or field applications engineer for maximum capability of the device in specific applications.

All product information and data (collectively, the "Information") are subject to change without notice.

KEMET K-SIM is designed to simulate behavior of components with respect to frequency, ambient temperature, and DC bias levels. The responses shown represent the typical response for each part type. Specific responses may vary, depending on manufacturing variation effects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.

All Information given herein is believed to be accurate and reliable, but is 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. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.

If you have any questions please contact K-SIM.

Generated 05/04/2025 © 2006 - 2025 YAGEO