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規格書版本更新履歷

Datasheet Version update list

版本 Version	變更內容 Update content	變更日期 Update Date	備註 Remark

ADP(UL)系列承認書
Series acknowledgement

NO	客戶料號 Customer Part Number	規格 Specification	料號 Part No
1		ADP395K350VAC	AUP395K2PTX
2			
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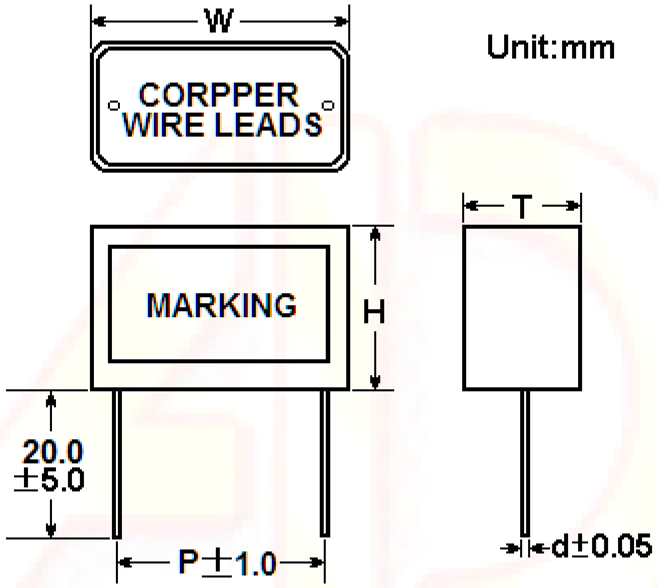
制 訂 者	版本	制訂日期	修 訂 說 明
劉亦婷	0	2025/02/27	首次發行 Adobe Acrobat Document ”UL”安規證書請開啟 Adobe Acrobat PDFXML Document ”產地證明”請開啟

核 准	審 核	制 訂
陳勝傑	蔡育君	劉亦婷

Metallized Polypropylene Film Capacitor.
TYPE：ADP395K350VAC



TYPE	ADP	
DIMENSIONS	Unit	mm
CAPACITANCE	μF	3.9
Voltage	VAC	350
Max. Insulation Resistance	IR	Cap≦0.47μF IR>2,000MOHM Cap>0.47μF IR>1,000MOHM×μF

1.Part Name: Metallized Polypropylene Film Capacitor.
2.Type: ADP (Encase in plastic case / Radial leads.)
3.Working Voltage:350(2P) VAC
4.Capacitance Range: 3.9μF
5.Capacitance Range Tolerance: K (±10%)
6.Temperature Range: - 40℃-- +85℃
7.Flame retardant plastic case & the Flame retardant resin：UL94-V0
8.Characteristics

ARTICLE	APPLICATION ITEM	CHARACTERSTICS	TEST METHOD
1.	Dielectric Strength (Between Terminals)	No damage	R.V ×√2x1.75%Vdc for60±2Sec 25℃
	Test voltage between terminals and case (Utc)		2kVac 1Khz applied for 60±2Sec at 25±5°C
2.	Insulation Resistance	Cap≦0.47μF IR>2,000MOHM Cap>0.47μF IR>1,000MOHM×μF	Measured at 100VDC after 1 minute.
3.	Capacitance	Within the specification	Measured with frequency 1Khz and AC voltage less than 6V.
4.	Disspation factor	tan δ＜0.1%	
5.	Vibration	No opening and short happened No damage in element junction and appearance.	10 – 55Hz 1.5 mm Amplitude 3 direction 2H Per direction. (m/m) 0.8
6.	Solderability	Good tinning, by eye measurement more than 3/4 of circumference is covered with new solder	Solder temp. 260℃ ±5℃ dwell time 3± 0.5 Sec
7.	Cold	Capacitance change within + 3 -0% of 25℃	At - 40℃ no Voltage applied
9.	Heat	Capacitance change within + 0 -5% of 25℃	At + 85℃ no Voltage applied
10.	Humidity life test	Appearance：No damage Dielectric strength：No damage IR：＞30% of initial value cap. change ≦5% of initial value tanδ＜0.15%	Temp. and humidity 40℃ 90 - 95% R.H. add W.V. for 500H then keep 16H under room temp.

ARTICLE	APPLICATION ITEM	CHARACTERSTICS	TEST METHOD
11.	Heat life test	Appearance：no damage IR：＞ 50% of Specified Value cap. change：≦3% of initial value tanδ＜ 0.15%	Add 1.25% of W.V. 85℃ in chamber for 5,000H then keep under standard condition 2H. (Class B)
12.	Sort test	Appearing：No damage Dielectric strength：No damage Capacitance：within the Specification D.F：within the specification	Vms×√2VDC for 3~5 Times discharge.
13.	Epoxy resin filled (UL-94V0)	Epoxy resin can not to overflow the bottom of plastic case.	By vernier measurement
14.	A storage needs to be kept indoors at -10～+40℃ and relative humidity of under 75% without any sudden temperature changes, direct sunlight and corrosive gas around.		

9. Marking

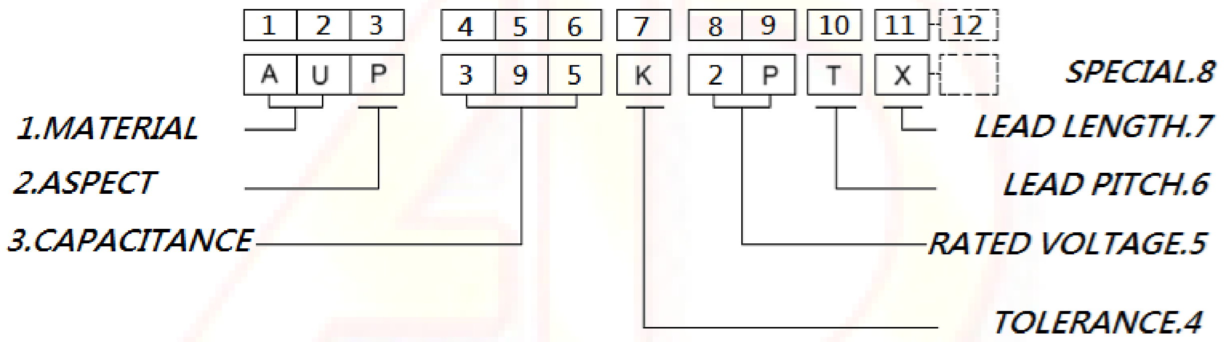
a. w. v.
b. Capacitance
c. Capacitance tolerance
d. Trading mark
e. manufacture date

10. Terminal & Dimension

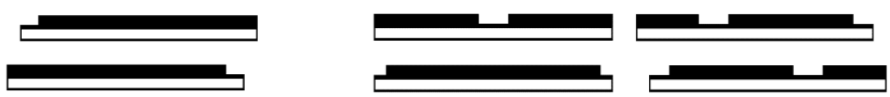
PART NO.	VOLTAGE	CAPACITANCE		DIMENSION(Plastic case±1.0mm)				
		SYMBOL	μF	W	T	H	P	d
AUP395K2PTX	350VAC	395	3.9	38.0	18.0	29.0	32.0	0.8

11. (AID) PART NO.

HOW TO ORDER(AID Computer CODE)



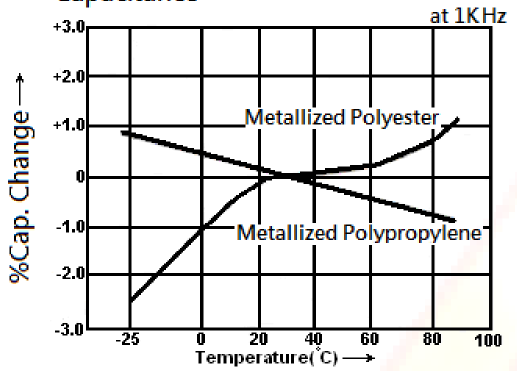
Construction

Metallized Film	OPP & Al/Zn
Metal Sprayed	Sn/Zn Alloy
Connection Electrode	Tinned copper wires
Case	Plastic Case (UL94V-0)
Filling	Epoxy Resin (UL94V-0)
Film Construction	Mono Structure Internal Series Connection 

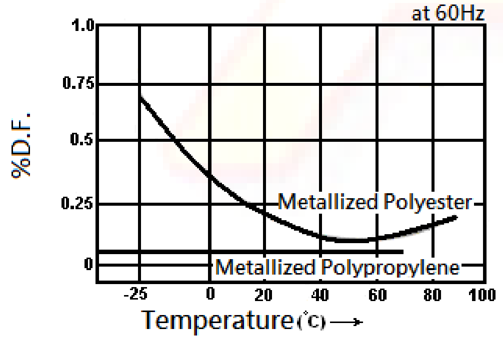
12. CHARACTERISTIC CURVE

■ Temperature Characteristics

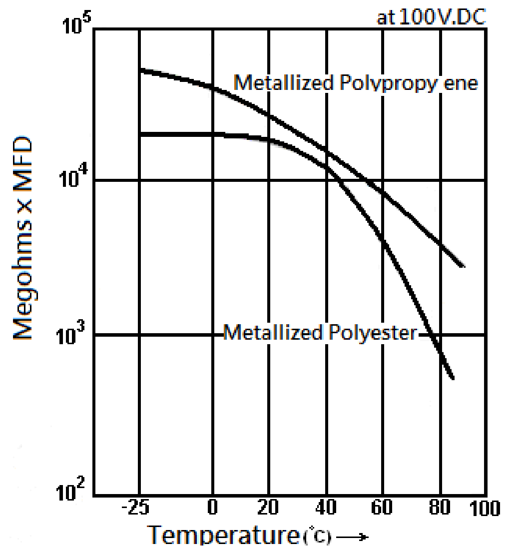
Capacitance



Dissipation Factor



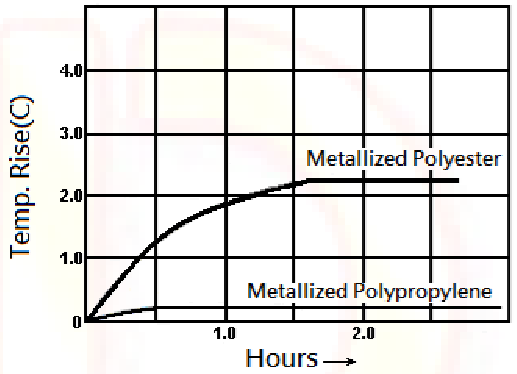
Insulation Resistance



■ Endurance

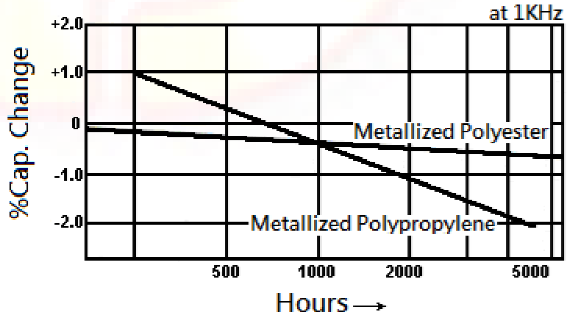
Temperature Rise (Capacitor Surface)

Tested at: Max. permissible temp.(w/o air cirulation)
1.1 x rated voltage (60Hz)
Sample : 150 ~ 500VAC, 6uF



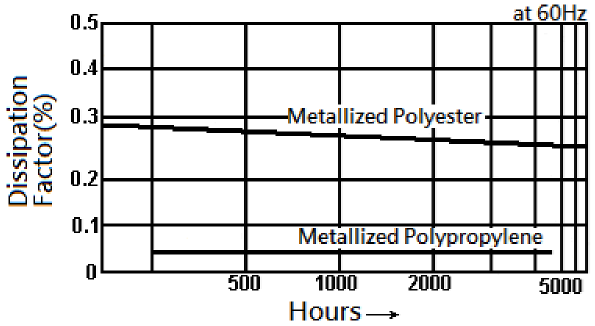
Continuous Endurance : Capacitance Change

150 ~ 500VAC, 6uF n=20
70℃ ~ 85℃ 60Hz



Continuous Endurance : Dissipation Factor Change

150 ~ 500VAC, 6uF n=20
70℃ ~ 85℃ 60Hz



13.Soldering process

Soldering Process

Internal temperature of the capacitor must be kept as follows:

Polyester: preheating：T $_{max.}$ T 125° C

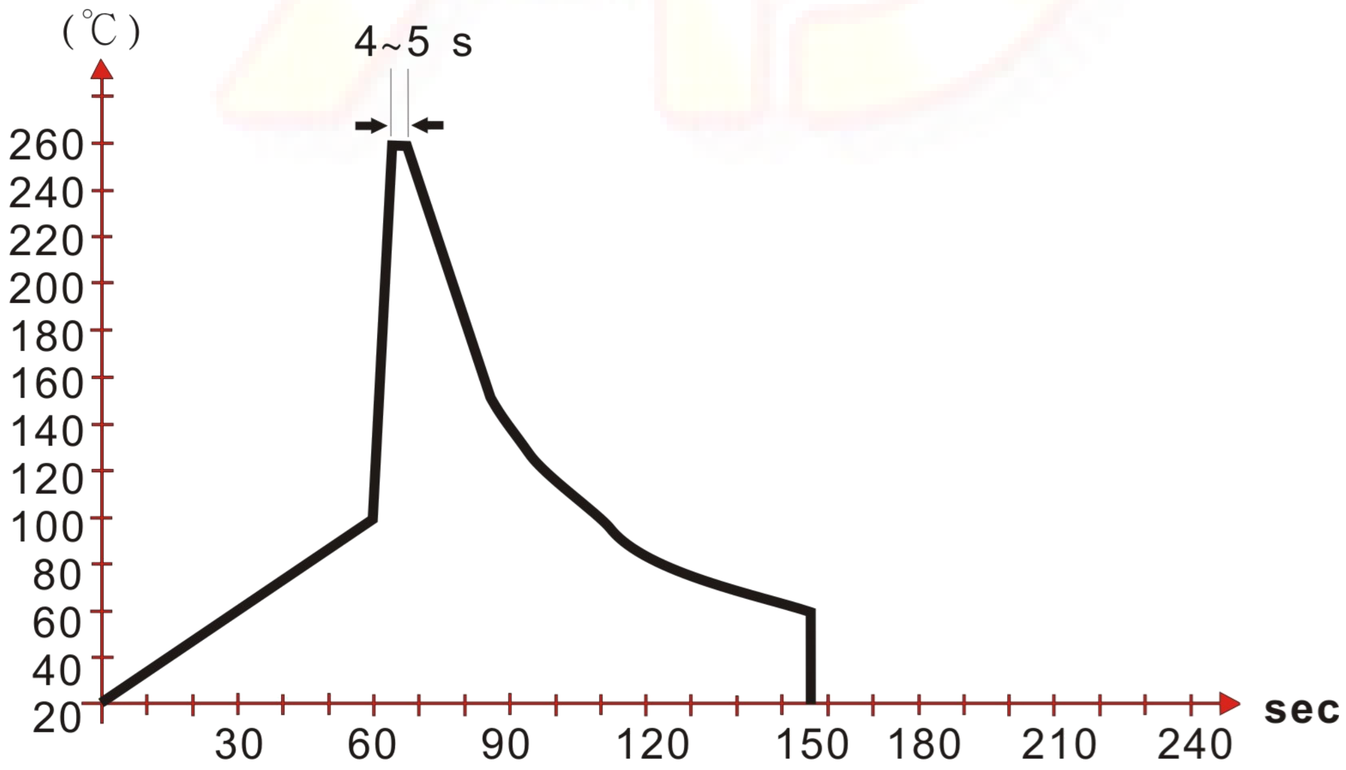
soldering：T $_{max.}$ T 135° C

Polypropylene: preheating：T $_{max.}$ T 100° C

soldering：T $_{max.}$ T 110° C

Single wave soldering
Soldering bath temperature：T P 260 ° C
Dwell time：t P 5 sec

Due to different soldering processes and heat requirements the graphs are to be regarded as a recommendation only.



14.Plastic shell & Epoxy resin (UL94-V0) certification

UL Online Certifications Directory

OCD Home Quick Guide Contact Us UL.com

QMFZ2.E154421
Plastics - Component

Additional information regarding this certification can be found in UL's iQ Family of Databases (www.ul.com/iq).

NEW -- for additional information concerning the individual material, click on the material designation.

Page Bottom

Plastics - Component

See General Information for Plastics - Component

KO HO CHEMICAL CO LTD E154421
13 ERH KAN RD
SAN KAN HSIANG WAI PU
TAI CHUNG, 438 TAIWAN

									H	D	
		Min.		**H**	**H**	**R T I**			**V**	**4**	**C**
		Thk	**Flame**	**W**	**A**	**Elec**	**Mech**		**T**	**9**	**T**
Material Dsg	**Color**	**mm**	**Class**	**I**	**I**		**Imp**	**Str**	**R**	**5**	**I**
Epoxy Potting Compound (EP - Potting), "Epoxy Resin", furnished as two liquid components.											
9824(#) A/B	ALL	0.78	V-0	-	-	90	90	90			

(#) - May be replaced with two alphanumericc characters designating color.
Marking: Company name and material designation on container, wrapper or finished part.

Last Updated on 2008-08-26

QMFZ2.E130155
Plastics - Component

Guide Information

NAN YA PLASTICS CORP
PLASTICS 4TH DIV
3RD FL
201 TUNG HWA NORTH RD
TAIPEI, TAIWAN

E130155

									H	D	
		Min.		**H**	**H**	**R T I**			**V**	**4**	**C**
		Thk	**Flame**	**W**	**A**	**Elec**	**Mech**		**T**	**9**	**T**
Material Dsg	**Color**	**mm**	**Class**	**I**	**I**		**Imp**	**Str**	**R**	**5**	**I**
Polybutylene Terephthalate (PBT), furnished as pellets.											
1100F, 1101FA, 1101FB, 1110F, 1111FA, 1111FB											
1403G3	ALL	0.75	V-0	4	0	130	130	140	—	—	—

(a)-May be followed by a number or letter indicating glass fiber content 5-30%.

(b)-May be followed by a number or letter indicating glass fiber content 15-30%.

(c)-May be followed by a letter indicating glass fiber content 1-45%.

(d)-May be followed by a letter indicating glass fiber content 1-25%.

(e)-May be followed by a letter indicating glass fiber content 1-30%.

(f1)-Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

(g)-May be followed by a letter indicating glass fiber content 15-45%.

(h)-May be followed by a letter indicating glass fiber content 1-50%
Marking: Company name and material designation on container, wrapper or finished part.

Guideline of notabilia for the usage of plastic film capacitors

塑膠薄膜電容器的使用上注意事項及指導

Plastic film capacitors use organic films for their dielectrics, thus the capacitors may fume of flame, depending on the circuit Conditions they are in, when they are damaged by applying over-voltage or over-current.
塑膠薄膜電容器使用有機薄膜為介質，當使用超過額定電壓及額定電流，可能產生火焰，導致電容損壞，故請使用於正確的迴路。

1. Circuit Design 迴路設計

① Please use capacitors within the range of their characteristic ratings, only after confirming their operating and mounting environments.
請確認電容器的使用範圍僅止於明定之額定特性規範，請先確認電容器使用之環境是否符合規範。

② In case of selecting a capacitor, please select the most suitable one which fits to your operating conditions.
請依照適合的作業條件選擇相對應的電容器使用。

③ Capacitors used for Across-The-Line, Line-By-Pass and Antenna-Coupling to suppress noises in an equipment, the capacitors need to be approved by overseas Safety Standards or 'Electric Appliance and Material Control' by Ministry of international trade and Industry.
電容器用於跨接，旁路迴路及天線耦合等抑制噪音的裝置，需通過海外安全標準或日本通商產業省之電器用品安全法。

④ An applying voltage to a capacitor, including the peak of surge and ripple voltage (D.C. voltage + A.C. Peak), cannot be exceeded therating voltage.
電容器之應用電壓，包括突波和紋波電壓的峰值(直流電壓+交流峰值)不可超過額定電壓。

⑤ Do not apply a current over its permissible level. Also, make sure the check the surrounding temperature and inherent Temperature rise of a capacitor since a permissible current can be restricted by those factors.
切勿使用超出電容器可承載之電流並檢查電容器周圍之溫度，因有許多因素會影響電流之變化，進而造成電容器之溫度上升。

⑥ Please contact AID for further details, if mechanical resonance (hum) occurs to a capacitor.
如電容器的發出共振(嗡嗡)之噪音時，請與AID聯繫。

⑦ Do not conduct a rapid charge and discharge to a capacitor which may lead to characteristics degradations or break down of the capacitor.
請不要對電容器進行快速的充電和放電，此可能會導致電容器之特性退化或損壞。

2. Mounting 安裝

① Do not apply any exceeding tension or torsion to lead wires of a capacitor, during the mounting process.
請不要使用任何超過電容導線可承受之張力進行插件。

② Please mount a capacitor where it dose not contact any other heating parts, high voltage parts and other parts.
請確認電容器使用環境，避免接觸任何其他升溫熱物件,高壓和其他部分料件。

③ Please conduct soldering process by strictly following the specified conditions.
進行焊接過程實，請嚴格遵循指定之焊接條件。

3. Case of an emergency 緊急情況

① If a fuming, a flaming or an usual smell occurs from an equipment during its usage, please cut off the power supply by switching It off, pulling the plug out or other methods.
如使用設備有冒煙，火花或冒出不尋常之氣味，請切斷電源，拔掉插頭或以其它方法關閉設備。

4. Storing and handling 儲存和處理

① A storage needs to be kept indoors at -10～+40℃ and relative humidity of under 75% without any sudden temperature changes, direct sunlight and corrosive gas around.
需保存於-10 ~ 40℃，相對濕度低於75%並確保沒有任何突然的溫度變化，避免直接陽光之曝曬及接觸腐蝕性氣體之環境。

② Do not apply and exceeding vibration, shock (dropping) and pressure.
不應過度震動、碰撞和及外力的衝擊。

5. Rejection 報廢

① In case of rejecting capacitors, please seek for professionals who deal with the industrial wastes treatments.
對於報廢電容器，請找處理工業廢品之專業人士處理。