

# 承認書

## SPECIFICATION FOR APPROVAL

Manufacturer Part Number : AUP306K2FTX、AUP506K2FTX、AUP706K2FTX、  
AUP806K2FTX、AUP906K2FTX

Manufacturer Model : ADP

Manufacturing product name specifications : ADP306K300VAC、ADP506K300VAC、  
ADP706K300VAC、ADP806K300VAC、  
ADP906K300VAC

Date : 17-OCT-23

Customer : Özdisan Elektronik

Date :

**✕** PLEASE PAY ATTENTION TO THE STORAGE PROBLEM, AND REFER TO THE FILM  
CAPACITORS OPERATING INSTRUCTIONS FOR THE DETAILS

Manufacturer	
Approved	Sales
陳 勝 傑	郭 秀 真

Customer acknowledges		
Approved	R & D Engineer	Stock Dept

⊙Please return the book that stamp admitted



AID Electronics Corporation		Specification	
P/N : AUP306K2FTX 、 AUP506K2FTX AUP706K2FTX 、 AUP806K2FTX AUP906K2FTX	Ver : 0	Date:17-OCT-23	pages: 1 of 16

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### Datasheet Version update list

Version	Update content	Update Date	Remark





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### ADP(UL) Series acknowledgement

NO	Customer Part Number	specification	Part No
1		ADP306K300VAC	AUP306K2FTX
2		ADP506K300VAC	AUP506K2FTX
3		ADP706K300VAC	AUP706K2FTX
4		ADP806K300VAC	AUP806K2FTX
5		ADP906K300VAC	AUP906K2FTX
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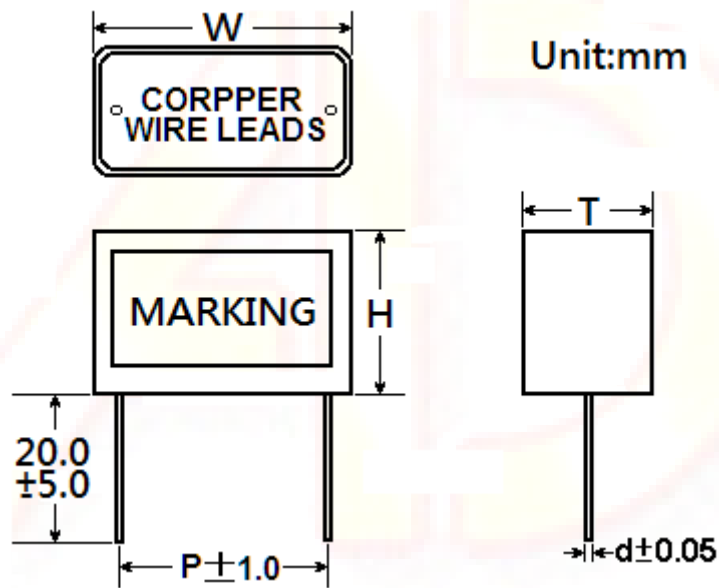
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MAKER	VERSION	DATE	REVISED DESCRIPTION	
劉亦婷	0	17-OCT-23	Issued  Adobe Acrobat Document "UL" Safety certificate(Openable)  Adobe Acrobat PDFXML Document "Certificate of origin" (Openable)	
<b>APPROVAL</b>		<b>CHECK</b>		<b>FORMULATE</b>
陳勝傑		蔡育君		劉亦婷



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**Metallized Polypropylene Film Capacitor.**  
**TYPE : ADP306K/300VAC、ADP506K/300VAC**  
**ADP706K/300VAC、ADP806K/300VAC**  
**ADP906K/300VAC**



TYPE	ADP	
DIMENSIONS	Unit	mm
CAPACITANCE	$\mu F$	30、50、70、80、90
Voltage	VAC	300
Min. Insulation Resistance	IR	More than 1000M $\Omega$

AID ELECTRONICS CORPORATION  
 NO.65, LANE 667, CHANG SAN ROAD, SHENG KUNG, TAICHUNG, TAIWAN, R.O.C  
 TEL : 886-4-25620100 FAX : 886-4-25629657  
 http : // www.aid.com.tw/ E-mail : [sales2@aid.com.tw](mailto:sales2@aid.com.tw)



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- 1.Part Name : Metallized Polypropylene Film Capacitor.
- 2.Type : ADP (Plastic Case / CU Lead Wires)
- 3.Working Voltage : 300(2F) VAC
- 4.Capacitance Range : 30 $\mu$ F、 50 $\mu$ F、 70 $\mu$ F、 80 $\mu$ F 、 90 $\mu$ F
- 5.Capacitance Range Tolerance : K ( $\pm 10\%$ )
- 6.Temperature Range : - 25 $^{\circ}$ C -- +85 $^{\circ}$ C
- 7.Flame retardant plastic case & the Flame retardant resin : UL94-V0
- 8.Characteristics

ARTICLE	APPLICATION ITEM	CHARACTERSTICS	TEST METHOD
1.	Dielectric Strength (Test voltage between terminals and case)	No damage	R.V $\times\sqrt{2}\times 150\%$ VDC For 2 Sec 25 $^{\circ}$ C
	Test voltage between terminals and case		Applied rated voltage $\times 2 + 1000$ VAC (minimum 2000VAC) For 1 minute.
2.	Insulation Resistance (Between Terminals)	More than 1000M $\Omega$	Measured at 100VDC after 1 minute.
3.	Capacitance	Within the specification	Measured with frequency 1Khz and AC voltage less than 2.5V.
4.	Dissipation factor	$\tan \delta < 0.2\%$	
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. 1.0
6.	Solder ability	Good tinning, by eye measurement more than 3/4 of circumference is covered with new solder	Solder temp. 260 $^{\circ}$ C $\pm 5^{\circ}$ C dwell time 3 $\pm$ 0.5 Sec
7.	Cold	Capacitance change within + 3 -0% of 25 $^{\circ}$ C	At - 25 $^{\circ}$ C no Voltage applied
8.	Heat	Capacitance change within + 0 -5% of 25 $^{\circ}$ C	At + 85 $^{\circ}$ C no Voltage applied
9.	Humidity life test	Appearance : No damage Dielectric strength : No damage IR : > 30% of initial value cap. change $\leq 5\%$ of initial value $\tan \delta < 0.15\%$	Temp. and humidity 40 $^{\circ}$ C 90 - 95% R.H. for five cycles for 8Hr. then keep 16H under room temp.



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ARTICLE	APPLICATION ITEM	CHARACTERSTICS	TEST METHOD
10.	Heat life test	Appearance : no damage IR : > 50% of Specified Value cap. change : ≤5% of initial value tanδ < 0.15%	Add 125% of W.V. 85°C in chamber for 3,000H then keep 16H under room temp for continuous test. Add 140% of W.V 85°C in chamber for on/off test for one hundred thousand times and then keep 16H under room temp.
11.	Sort test	Appearing : No damage Dielectric strength : No damage Capacitance : within the specification D.F : within the specification	R.V×√2×150% VDC For 2 Sec 25°C
12.	Epoxy resin filled (UL94-V0)	Epoxy resin can not to overflow the bottom of plastic case.	By venire measurement

**9. Marking**

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

ADP TYPE  
30μF±10%300V.AC  
-25°C ~ +85°C  
E197934 50/60Hz  
AID ELECT.CORP.,  
YY.MM

ADP TYPE  
50μF±10%300V.AC  
-25°C ~ +85°C  
E197934 50/60Hz  
AID ELECT.CORP.,  
YY.MM

**10. Terminal & Dimension**

ADP TYPE  
70μF±10%300V.AC  
-25°C ~ +85°C  
E197934 50/60Hz  
AID ELECT.CORP.,  
YY.MM

ADP TYPE  
80μF±10%300V.AC  
-25°C ~ +85°C  
E197934 50/60Hz  
AID ELECT.CORP.,  
YY.MM

ADP TYPE  
90μF±10%300V.AC  
-25°C ~ +85°C  
E197934 50/60Hz  
AID ELECT.CORP.,  
YY.MM

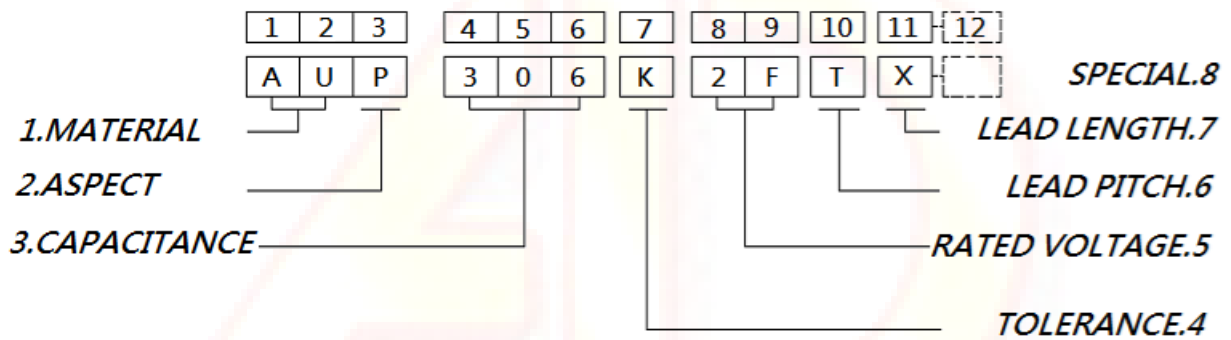
PART NO.	VOLTAGE	CAPACITANCE		DIMENSION (Shell size±1.0mm)				
		SYMBOL	μF	W	T	H	P	d
AUP306K2FTX	300VAC	306	30	51.0	30.0	40.0	45.0	1.0
AUP506K2FTX	300VAC	506	50	60.0	36.0	55.0	52.0	1.0
AUP706K2FTX	300VAC	706	70	59.0	45.0	55.0	52.0	1.0
AUP806K2FTX	300VAC	806	80	59.0	45.0	55.0	52.0	1.0
AUP906K2FTX	300VAC	906	90	59.0	45.0	55.0	52.0	1.0



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### 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

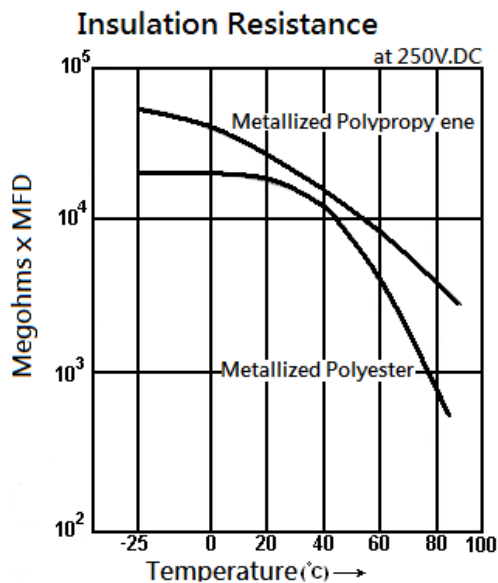
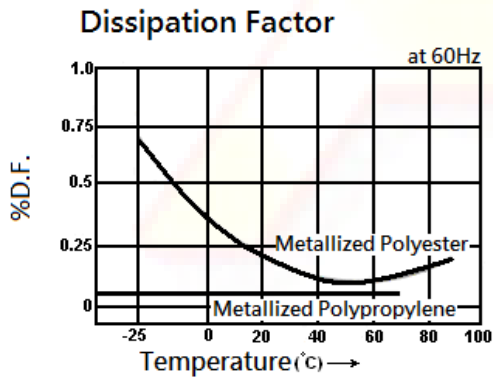
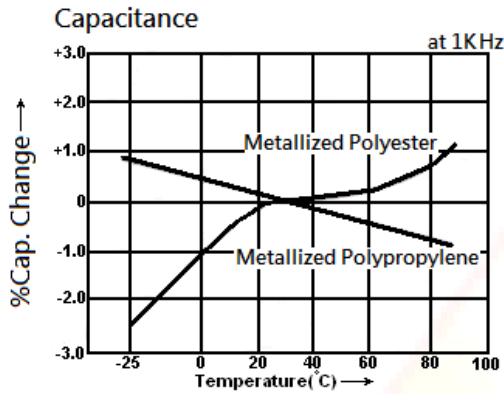




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## 12. CHARACTERISTIC CURVE

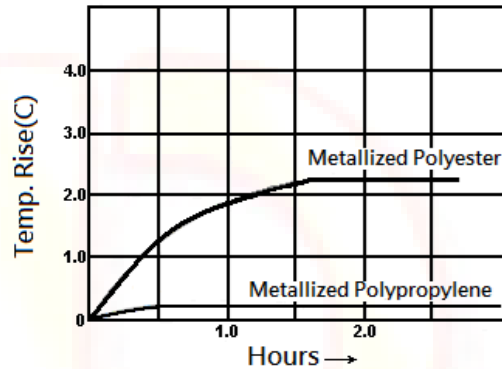
### Temperature Characteristics



### Endurance

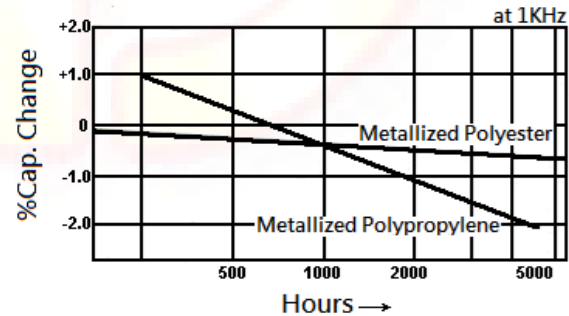
#### Temperature Rise (Capacitor Surface)

Tested at: Max. permissible temp.(w/o air circulation)  
1.1 x rated voltage (60Hz)  
Sample : 250~500VAC, 6uF



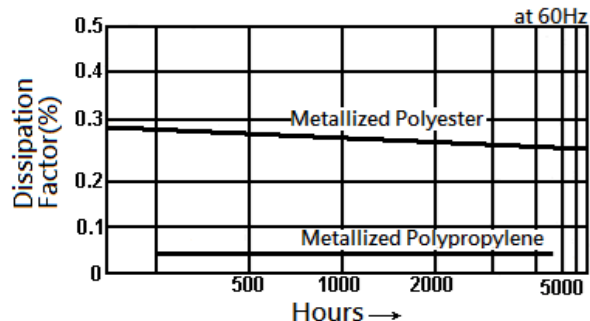
#### Continuous Endurance : Capacitance Change

250~500VAC, 6uF n=20  
70°C~85°C 60Hz



#### Continuous Endurance : Dissipation Factor Change

250~500VAC, 6uF n=20  
70°C~85°C 60Hz





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### 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](http://www.ul.com/iq)).

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

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### Plastics - Component

[See General Information for Plastics - Component](#)

**KO HO CHEMICAL CO LTD**

13 ERH KAN RD  
SAN KAN HSIANG WAI PU  
TAI CHUNG, 438 TAIWAN

E154421

									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
<b>Epoxy Potting Compound (EP - Potting), "Epoxy Resin", furnished as two liquid components.</b>											
<a href="#">9824(#)</a> <b>A/B</b>	ALL	0.78	V-0	-	-	90	90	90			

(#) - May be replaced with two alphanumeric characters designating color.

Marking: Company name and material designation on container, wrapper or finished part.

[Last Updated](#) on 2008-08-26



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**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
<b>Material Dsg</b>	<b>Color</b>	<b>mm</b>	<b>Class</b>	<b>I</b>	<b>I</b>		<b>Imp</b>	<b>Str</b>	<b>R</b>	<b>5</b>	<b>I</b>
<b>Polybutylene Terephthalate (PBT), furnished as pellets.</b>											
<b>1100F, 1101FA, 1101FB, 1110F, 1111FA, 1111FB</b>											
<b>1403G3</b>	<b>ALL</b>	<b>0.75</b>	<b>V-0</b>	<b>4</b>	<b>0</b>	<b>130</b>	<b>130</b>	<b>140</b>	<b>—</b>	<b>—</b>	<b>—</b>

- (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.



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## MSDS 物質安全資料表

### 一、物品與廠商資料/Product and Company Identification

物品名稱: 電容器 Product Name Capacitors
物品編號: Product Code : AUP306K2FTX、AUP506K2FTX、 AUP706K2FTX、AUP806K2FTX、AUP906K2FTX
製造商或供應商名稱、地址及電話: Address & Tel. of Manufacturer or Agent 愛得電子股份有限公司 台灣台中市神岡區中山路 667 巷 65 號/886-4-25620100
緊急聯絡電話/傳真電話: Emergency Phone Number/Fax TEL : 886-4-25620100 FAX:886-4-25629657

### 二、成份辨識資料/Composition, Information on Ingredients

成分名稱 Component Chemical Name & Common Name :	化學文摘登記號碼 CAS No. :	濃度(成分百分比) Concentration(Percentage) :
部件名稱 Part Name	組成物質 Constituents	
素子 Element	鋅 Zinc	7440-66-6 0.93%
	鋁 Tin	7429-90-5 0.07%
	PP 基膜 Basement membrane	9003-07-0 99.0%
噴金層 Spray gold layer	錫鋅 Tin zinc	7440-66-6 44.65%
	鋅 zinc	7440-31-5 55.35%
引腳(CU) Pin-CU (1.0mm)	錫 Tin	7440-50-8 4.0%
	銅 Copper	7440-31-5 96.0%
環氧樹脂 Epoxy resin (UL94-V0)	環氧樹脂 A Epoxy resin A	25068-38-6 100.00%
		21645-51-2
		6833-79-9
	環氧樹脂 B Epoxy resin B	9046-10-0 20.00%
		69-72-7
		84-74-2
塑膠殼 Plastic shell (PBT)	UL94-V0	26062-94-2 68%
		1592-23-0 0.5%
		68928-70-1 10%
		1309-64-4 5%
		65997-17-3 16.5%



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### 三、危害辨識資料/ Hazard Identification

最重要危害效應 Most Important Health Hazards and Reactions	健康危害效應/Health Hazards and Reactions : No
	環境影響/Environmental Impact : No
	物理性及化學性危害/Physical and Chemical Hazards : No
	特殊危害/Specific Hazards : No
主要症狀/Cardinal Symptoms : No	
物品危害分類/Hazard Classification : No	

### 四、急救措施/ First Aid Measures

不同暴露途徑之急救方法/ First Aid Measures for Different Kinds of Exposures : ·吸入/Inhalation : No ·皮膚接觸/Skin Contact : No ·眼睛接觸/Eye Contact : No ·食入/Ingestion : No
最重要症狀及危害效應/Most Important Symptoms and Hazard Reactions : No
對急救人員之防護/Protection to First-Aid Attendants : No
對醫師提示/Suggestions to Doctors : No

### 五、滅火措施/ Firefighting Measures

適用滅火劑/Suitable Extinguishing Media : 乾粉滅火劑、二氧化碳滅火劑/Dry powder fire extinguishing agent, carbon dioxide fire extinguishing agent
滅火時可能遭遇之特殊危害/Special Hazards in Fire : No
特殊滅火程式/Special Fire - Fighting Procedures : No
消防人員之特殊防護設備/Required Special Protective Equipment for Fire-Fighters : No

### 六、洩漏處理方式/Accidental Release Measures

個人應注意事項/ Personal Precautions : No
環境注意事項/Environmental Precautions : No
清理方法/Methods for Cleaning : No



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## 七、安全處置與儲存方法/ Handling and Storage

處置/Handling : 濕度在 75%以下/ Humidity is below 75%

儲存/ Storage : 常溫≤35℃濕度在 75%以下/ Room temperature≤35℃, humidity below 75%

## 八、暴露預防措施/ Exposure Controls, Personal Protection

工程控制/ Engineering Measures :

控制參數/ Control Parameters :

\*八小時日時量平均容許濃度(TWA)/短時間時量平均容許濃度(STEL)/最高容許濃度(CEILING) : 無資料  
Eight-hour daily hourly average allowable concentration (TWA)/short-time hourly average allowable concentration (STEL)/maximum allowable concentration (CEILING): no data

\*生物指標/ BEIs : 無資料

Biometrics/BEIs: No data

個人防護設備/ Personal Protection Equipment :

\*呼吸防護/Respiration : No

手部防護/Hand : 防護手套 ; protective gloves;

\*眼睛防護/Eye : 護目鏡/goggles

\*皮膚及身體防護/Skin & Body : 無眼睛防護/Eye : No

衛生措施/Hygiene Measures : No

## 九、物理及化學性質/ Physical and Chemical Properties

物質狀態/ State of Substance : 固態/ Solid state	形狀/Appearance : 固態/ Solid state
顏色/Color : 藍色/ Blue	氣味/Odor : 無味/ Tasteless
pH 值/pH Value : -	沸點/沸點範圍/Boiling Point : 260℃
分解溫度/Decomposing Temperature : 260℃	開火點 : - Flashpoint 測試方法 : 開杯閉杯 Test Methods : Open Slot C lose slot
自燃溫度/Self-lighting Temperature : -	爆炸界限/Explosion Limits : -
蒸氣壓/Vapor Pressure : -	蒸氣密度/Vapor Density : -
密度/Density : 1.14	溶解度/Dissolution : -



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## 十、安定性及反應性/Stability and Reactivity

安定性/Stability : 安定/ stable

特殊狀況下可能之危害反應/Possible Hazard Reaction Under Special Conditions : No

應避免之狀況/Conditions to Avoid : No

應避免之物質/Materials to Avoid : No

危害分解物/Hazardous Decomposition Products : No

## 十一、毒性資料/ Toxicological Information

急毒性/Acute Toxicity : No

局部效應/Local Reactions : No

敏感性/Sensitivity : No

慢毒性或長期毒性/Chronicons Long-term Toxicity : No

特殊效應/Special Reactions : No

8mg/kg(懷孕 8-15 的雌鼠

IARC 將之列為 Group1

ACGIH 將之列為 A2 :

## 十二、生態資料/ Ecological information

可能之環境影響/環境流布/Possible Environmental Impact/Environmental Run-offs : No

## 十三、廢棄處置方法/Disposal considerations

可廢棄處置方法/Disposal Methods : 回收再生使用/回收公司回收再生使用/廢棄  
Recycling/recycling company recycling/disposing

## 十四、運送資料/Transport information

國際運送規定/International Transportation Regulations : 無資料/ No data

聯合國編號/Referencing. : 無資料

國內運送規定/Domestic Transportation Regulations : 無資料/ No data

特殊運送方法及注意事項/Special Transportation Methods and Precautions : 無資料/ No data



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### 十五、法規資料/Regulatory information

適用法規/Applicable Regulation : 無資料/ No data

### 十六、其它資料/Other information

適用法規/Applicable Regulation : 無資料/ No data

參考文獻 Ref. Document	No		
製表單位 Department	名稱/Dept. Name : 工程部/ Engineering Department		
	地址/電話 Address/Tel. : 台灣台中市神岡鄉中山路 667 巷 65 號/886-4-25620100 NO. 65, LANE 667 ZHONGSHAN RD., SHENGANG DISTRICT, TAICHUNG CITY 429 TAIWA		
	職稱/Title : 工程師/ Engineer	姓名(簽單) Name(Signature) : 林士豪	
製表日期 Date Prepared	Date : 17-OCT-23		





AID Electronics Corporation		Specification	
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**Guideline of notabilia for the usage of plastic film capacitors**

### Cautions and Warnings

1. Don't exceed the upper category temperature.
2. For longtime storage, maximum relative humidity 80%, no dew allowed on the capacitor.
3. Do not use or store capacitor in corrosive atmosphere, in the dusty environment's regular maintenance and cleaning especially of the terminals is required to avoid conductive path between terminal / or terminal and ground.
4. Don't apply any mechanical stress to the capacitor terminals, and avoid any compressive, tensile or flexural stress.
5. Don't move the capacitor after fixed to the PC board, and don't pick up the PC board by the fixed capacitor.
6. Don't place the capacitor on a PC board whose hole pitch differs from the specified space.
7. Avoid overload of the capacitors
8. Do not have unlimited service life expectancy, the max service life expectancy may vary depending on the application the capacitor is used in.

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In customer application requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or lifesaving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.

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