	<spe< td=""><td>ECIFICAT</td><td>ION></td><td></td></spe<>	ECIFICAT	ION>	
			SPEC.No. ASD Date: Jul.1 [,]	IQ-SPE-074(00) 1,2022
То :				
	CUSTOM	ER'S PRODUCT NA	ME	
	ASDI PRO HXA120	DUCT NAME: 6F2SF-600T02		
	ATION		CONDITIONAL CO	NSENT
	APPROVED		CHECKED	
ASDI SIGNATURE				
	APPROVED Xianglong Li	CHECKED Liang Wang	PREPARED Jiayin Cai	



Xiamen ASDI Electronics Co.,Ltd.

REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Jul.11,2022	New release	Xianglong Li	Liang Wang	Jiayin Cai
					-
			-	-	-
			-	-	-

CAUTION WHEN HANDLING

Before use the products, please read this specification.

CAUTION FOR SAFETY USING

When use the products, be careful to mentioned below for safety using.

	CAUTION	
*The product should be used with	in 12 monthes	
Focus on the storage conditions		
Solderability may become weak if	it exceeds the period	
*Do not use and store the product	in condition of gas corrosion	
(Salt Acid Alkaline)	in condition of gas contraion	
*The products must be preheated	hefore soldering	
The operating temperature includi	ng self-generated heat must be w	/ithin '_40~+85℃
*Rework by soldering iron:Please	keep the mentioned conditions in	this specification
*In case of insert P.C. Board on c	hassis do not add mechanical str	ess to the product
*Be careful to arrange of non-mac	nassis, do not add mechanical str inetic field type inductors	
The error may be caused by mag	netic field coupling	
*In case handle the products place	Tello Tiello coupility.	ic discharge on
human body	ise use what shap for ground stat	ic discharge Ull
The product keeps away from me	anot or magnetized things	
*Do not use the product boyond the	yner of maynelized tilligs.	ecification
*About an application	ie menuoneu conultons in this sp	
The products listed on this specific	cation sheet are intended for uso	in general electronic
equinment		ni general electronic
(AV equipment telecommunication	ns equinment home appliances	amusament
equipment computer equipment	nersonal equipment, office equipr	annusennenn ment messurement
equipment, computer equipment,	ar a normal operation and use con	dition
*The products are not designed or	r warranted to meet the requirement	nte of the applications
listed below, whose performance	and/or quality require a more strin	aent level of safety or
reliability or whose failure malfun	and/or quality require a more strin	us damage to society
person or property. Please unders	tand that we are not responsible	for any damage or
liability caused by use of the produ	icts in any of the applications below	ow or for any other
use exceeding the range or condit	tions set forth in this specification	sheet
1)Aerospace/Aviation equipment	6)Transportation control equir	oment
2)Military equipment	7)Power-generation control e	nuinment
3)Seabed equipment	which directly endanger but	man life
4)Safety equipment	8)Atomic energy-related equir	ment
5)Medical equipment	9)Other applications that are i	not
ojmedical equipment	considered general-purpose	applications
If you intend to use the products in	the following applications pleas	e contact our sales
office	The following applications, pieus	
Transportation equipment (cars e	lectric trains ships etc.) Public i	nformation-processing
equipment Electric heating appar	atus / burning equipment. Disaste	r prevention/crime
prevention equipment	alus / barning equipment, bisaste	
When using this product in general	al-nurnose applications, you are k	indly requested to
take into consideration securing o	rotection circuit/equipment or prov	iding backup circuite
etc to ensure higher safety	received an encourt equipment of pro-	nang buonup onoullo,
ete, to ensure higher safety.		
en ASDI Electronics Co.,Ltd.	$\Delta SDIO_SPE_074(00)$	ISSUE

CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
	HXA1206F2SF-600T02	

1.SCOPE

For Ethernet (RJ45 Port)

2.INDEX

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7.Material List	Please see (7)	4/7
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3.Manufacturing Location

China

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(7)Material List

No.	Description	Specification
a.	Upper Plate	Ferrite
b.	Core	Ferrite Core
С	Termination	Solder (Pb Free)
d	Wire	Enameled Copper Wire

(8)Reliability Tests

NO.	Operation	Performance	
1	Operating temperature	-40~+85 $^\circ\!\!\mathbb{C}$ (Including self - temperature rise)	
2	Storage temperature	-40~+85℃ (on board)	
		Electrical Performance Test	
3	L(common mode)		Agilent-4291A+ Agilent -16197A
4	DCR	Refer to standard electrical characteristics list.	Agilent-4338B
5	I.R.		Agilent4339
6	Temperature Rise Test	Rated Current < 1A ΔT 20℃Max Rated Current ≧ 1A ΔT 40℃Max	1.Applied the allowed DC current. 2.Temperature measured by digital surface thermometer
		Reliability Test	
7	Life Test		Preconditioning: Run through IR reflow for 2 times.(IPC/JEDECJ-STD-020DClassification Reflow Profiles) Temperature: 85±2°C Applied current: rated current Duration: 1000±12hrs Measured at room temperature after placing for 24±2 hrs
8	Load Humidity		Preconditioning: Run through IR reflow for 2 times.(IPC/JEDECJ-STD-020DClassification Reflow Profiles Humidity: 85 ± 2 %RH, Temperature: $85^{\circ}C\pm2^{\circ}C$ Duration: 1000hrs Min. with 100% rated current Measured at room temperature after placing for 24±2 hrs
9	Moisture Resistan ce	Appearance: No damage. Impedance: within±15% of initial value RDC: within ±15% of initial value and shall not exceed the specification value	Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles 1. Baked at 50°C for 25hrs, measured at room temperature after placing for 4 hrs. 2. Raise temperature to 65±2°C 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25°C in 2.5hrs. 3. Raise temperature to 65±2°C 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25°C in 2.5hrs, and keep 3 hours, cool down to 25°C in 2.5hrs, keep at 25°C for 2 hrs then keep at -10°C for 3 hrs 4. Keep at 25°C 80-100%RH for 15min and vibrate at the frequency of 10 to 55 Hz to 10 Hz, measure at room temperature after placing for 1~2 hrs.
10	Thermal shock		Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles Condition for 1 cycle Step1: -40±2°C 30±5min Step2: 25±2°C ≤0.5min Step3: 85±2°C 30±5min Number of cycles: 500 Measured at room temperature after placing for 24±2 hrs
11	Vibration		Oscillation Frequency: 10 ~ 2K ~ 10Hz for 20 minutes Equipment: Vibration checker Total Amplitude:1.52mm±10% Testing Time : 12 hours(20 minutes, 12 cycles each of 3 orientations)

a

b

T đ

13 Bending		
	Appearance: No damage. Inductance: within±10% of initial value RDC: within ±15% of initial value and shall not	Shall be mounted on a FR4 substrate of the following dimensions: >=0805 inch(2012mm):40x100x1.2mm <0805 inch(2012mm):40x100x0.8mm Bending depth: >=0805 inch(2012mm):1.2mm <0805 inch(2012mm):0.8mm duration of 10 sec.
14 Shock	exceed the specification value	Type Peak value (ms) Normal duration (D) (ms) Wave form Velocity change (Vi)Hysec SMD 50 11 Half-sine 11.3 Lead 50 11 Half-sine 11.3
15 Solder ability	More than 95% of the terminal electrode should be covered with solder	Preheat: 150°C,60sec. Solder: Sn96.5% Ag3% Cu0.5% Temperature: 245±5°C Flux for lead free: Rosin. 9.5% Dip time: 4±1sec Depth: completely cover the termination
16 Resistance to Soldering Heat		Depth: completely cover the termination Temperature(°C) Time(s) Temperature ramp/immersion and emersion rate Number of heat cycles 260 ±5 (solder temp) 10 ±1 25mm/s ±6 mm/s 1
17 Terminal 17 Strength	Appearance: No damage. Inductance: within±10% of initial value RDC: within ±15% of initial value and shall not exceed the specification value	Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD- 020DClassification Reflow Profiles With the component mounted on a PCB with the device to be tested, apply a force(>0805:1kg, <=0805:0.5kg)to the side of a device being tested. This force shall be applied for 60 +1 seconds. Also the force shall be applied gradually as not to apply a shock to the component being tested.

(9)Soldering and Mounting

9-1,Soldering

Mildly activated rosin fluxes are preferred. ASDI terminations are suitable for all wave and re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

9-2,Solder re-flow

Recommended temperature profiles for re-flow soldering in Figure 1.

9-3, Soldering Iron

Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.

. Preheat circuit and products to 150℃

Never contact the ceramic with the iron tip

Use a 20 watt soldering iron with tip diameter of 1.0mm

·355℃ tip temperature (max)

·1.0mm tip diameter (max)

Limit soldering time to 4~5 sec.



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