<specification></specification>							
		SPE Date	C.No. ASDIQ-SPE-109(00)				
То :							
	CUSTOMER'S PROE	DUCT NAME					
ASDI PRODUCT NAME: ASCM2012F2SF-SERIES							
UNCONDITIONAL CONSENT CONDITIONAL CONSENT							
APPROVED CHECKED							
ASDI SIGNATURE	ASDI SIGNATURE						
APPROVED	CHECKED	PREPARED]				
Xianglong Li	Liang Wang	Jiayin Cai					



Xiamen ASDI Electronics Co.,Ltd.

REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Aug.02,2022	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 withi	n 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 conduction of gue concelent	
*The products must be preheated	before 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 cl	nassis, do not add mechanical str	ess to the product.
*Be careful to arrange of non-mag	netic field type inductors.	
The error may be caused by mag	netic field coupling.	
*In case handle the products, plea	se use wrist strap for ground stat	ic discharge on
human body.		-
The product keeps away from mag	gnet or magnetized things.	
*Do not use the product beyond th	e mentioned conditions in this sp	ecification.
*About an application		
The products listed on this specific	cation sheet are intended for use	in general electronic
equipment		
(AV equipment, telecommunication	ns equipment, home appliances,	amusement
equipment, computer equipment,	personal equipment, office equipr	nent, measurement
equipment, industrial robots) unde	r a normal operation and use con	dition.
*The products are not designed or	warranted to meet the requireme	ents of the applications
listed below, whose performance a	and/or quality require a more strin	gent level of safety or
reliability, or whose failure, malfun	ction or trouble could cause serio	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 products in any of th	e applications below or for any ot	her use exceeding the
range or conditions set forth in this	s specification sheet.	
1)Aerospace/Aviation equipment	6)Transportation control equip	oment
2)Military equipment	7)Power-generation control ed	quipment
3)Seabed equipment	which directly endanger hu	man life
4)Safety equipment	8)Atomic energy-related equip	oment
5)Medical equipment	9)Other applications that are i	
If you intend to use the products in	considered general-purpose	
If you interna to use the products in	The following applications, pleas	
Transportation aquipment (agra o	lastria traina, china, ata). Rublia i	oformation processing
aquipment Electric beating appar	atus / burning oquinmont Disasto	r provention/crime
provention equipment	alus / burning equipment, Disaste	
When using this product in gapars	al-nurnose annlications, you are k	indly requested to
take into consideration securing p	rotection circuit/equipment or prov	indig requested to
etc to ensure higher safety	rotection enconvequipment of prov	nung backup circuits,
etc., to ensure higher safety.		
	DWG.No.	100117
nen ASDI Electronics Co., Ltd.	ASDIQ-SPE-109(00)	ISSUE

CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
	ASCM2012F2SF-SERIES	

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2.Manufacturing Location

China

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Xiamen ASDI Electronics Co.,Ltd.

No.	Test item	Performa	ince	Test details	
		Elec	trical Characteristics T	ust l	
1	Z(common mode)]		HP-4291A+HP-16092A	
2	DCR			HP-4338B	
3	I.R.	Refer to standard electrical characteristics list.		Zentech 702A(Ultra High Resistance Meter)	
4	Rated Current			Applied the current to coils the impedance change s be less than ±25% to initial value and temperature n should not be more than 30°C.	should rise
5	Operating temperature	-40°C∼+85°C			
6	Storage temperature	-40°C∼+85°C			
7	Temperature Rise Test	30℃ max.(∆t)		1.Applied the allowed DC current. 2.Temperature measured by digital surface thermor	meter
		Mec	hanical Performance T	st	
8	Solderability Test	More than 90% of terminal electrode should be covered with sol	der.	After fluxing,component shall be dipped in a melted	l solde
9	Solder Heat Resistance	 Components should have not evide mechannical damage. Impedance:within ±25% of initial v 	ence of electrical and alue.	Preheating Dipping Natural cooling 260°C 150°C 150°C 150°C 102.0.5 Solder:Sn-Ag3-Cu0.5 Solder temperature: 260±5°C Flux:rosin. Dip time:10±0.5 secs.	
10	Component Adhesion (Push test)	Series No. ASCM3216F2S ASCM2012F2S ASCM3216F2N ASCM2012F2N	F(Kg) 0.8(min.) 0.5(min.) 0.8(min.) 0.5(min.)	The device should be reflow soldered (230±5°C5for 10sec.)to a tinned copper substrate.A dynometer force gauge should be applied the side of the component.The device must with-ST-F Kg without ailure of the termination attached to component.	
11	Component Adhesion (Pull test)	Series No. ASCM3216F2S ASCM2012F2S ASCM3216F2N ASCM2012F2N	F(Kg) 0.8(min.) 0.5(min.) 0.8(min.) 0.5(min.)	 Insert 10cm wire into the remaining open eye bend ,the ends of even wire lengths upward and wind together. Terminal shall not be remarkably damaged. 	
12	Random Vibration Test	Appearance: Cracking, shipping and the characteristics should not be allowed Impedance: within ±30%	any other defects harmfu l.	to Frequency: 10-55-10Hz for 1 min. Amplitude: 1.52mm Directions and times: X, Y, Z directions for 2 hours. A period of 2 hours in each of 3 mutually perpendicu directions (Total 6 hours).	ular

No.	Test item	Performance	Test details
		Reliability Test	
13	HighTemperature Life Test		Temperature:85±5 [°] C Time:500±12hr. Recovery: 4 to 24hrs of recovery under the standard condition after the removal from test chamber.
14	Low Temperature Life Test		Temperature:40±5℃ Time:500±12hr. Recovery: 4 to 24hrs of recovery under the standard condition after the removal from test chamber.
15	Thermal Shock	1. Appearance:No damage. 2. Impedance:within ±25% of initial value. No disconnection or short circuit.	Step Temperature(°C) Times(min.) 1 -40±3 30±3 2 Room Temperature Within 3 3 85±3 30±3 4 Room Temperature Within 3 5 Step 30±3 4 Room Temperature Within 3 5 Step Step 6 Temperature Within 3 7 Recovery: 4 to 24hrs of recovery under the standard condition after the removal from test chamber. 7 Temperature:
16	Humidity Resistance		Humidity:90 to 95% Applied current:Rated current Time:500±12hr. Recovery: 4 to 24hrs of recovery under the standard condition after the removal from test chamber

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(7)Soldering and Mounting

7-1,Recommended PC Board Pattern

	ASCM2012F2S/F2N	ASCM3216F2S/F2N
L	2.60	3.70
Н	1.25	1.60
G1	1.10	1.90
G2	0.45	0.40



PC board should be designed so that products are not sufficient under mechanical stress as warping the board.

Products shall be positioned in the sideway direction against the mechanical stress to prevent failure.

7-2, Soldering

Mildly activated rosin fluxes are preferred. The minimum amount of solder can lead to damage from the stresses caused by the difference in coefficients of expansion between solder, chip and substrate. 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.

7-2.1,Lead Free Solder re-flow:

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

7-2.2, Solder Wave:

Wave soldering is perhaps the most rigorous of surface mount soldering processes due to the steep rise in temperature

seen by the circuit when immersed in the molten solder wave. Due to the risk of thermal damage to products, wave soldering

of large size products is discouraged. Recommended temperature profile for wave soldering is shown in Figure 2.

7-2.3,3 Soldering Iron(Figure 3):

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.

Note:

·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

- ·280к tip temperature (max)
- ·1.0mm tip diameter (max)

·Limit soldering time to 3 sec.



(8)Packaging Information

8-1,Reel Dimension



Туре	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	9.0±0.5	60±2.0	13.5±0.5	178±2.0

8-2, Tape Dimension



8-3, Packaging Quantity

Chip size	Chip/Reel	Inner Box	Middle Box	Carton
ASCM2012F2S/F2N	2000/3000	10000/15000	50000/75000	100000/150000
ASCM3216F2S/F2N	2000	10000	50000	100000

8-4, Tearing Off Force



The force for tearing off cover tape is 15 to 60 grams in the arrow direction under the following conditions.

Room Temp.	Room Humidity	Room atm	Tearing Speed
(°C)	(%)	(hPa)	mm/min
5~35	45~85	860~1060	300

(9)Note

·Storage Conditions

- To maintain the solderability of terminal electrodes: 1. ASDI products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 2. Temperature and humidity conditions: Temperature: 5 to 30deg.C, Humidity: 75% Max.
- 3. Recommended products should be used within 12 months form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.

Transportation

- 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- The use of tweezers or vacuum pick up is strongly recommended for individual components.
 Bulk handling should ensure that abrasion and mechanical shock are minimized.

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单击下面可查看定价,库存,交付和生命周期等信息

>>ASDI