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To :			SPEC.No. ASD Date: Aug.	IQ-SPE-148(00) 18,2022
	CUSTOME	R'S PRODUCT NAM	E	
		PRODUCT NAME:		
			•	
	DITIONAL CONSENT		CONDITIONAL COM	NSENT
	APPROVED		CHECKED	
ASDI SIGNATURE				
	APPROVED	CHECKED	PREPARED	
	Xianglong Li	Liang Wang	Jiayin Cai	



Xiamen ASDI Electronics Co.,Ltd.

REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Aug.18,2022	New release	Xianglong Li	Liang Wang	Jiayin Cai
			<u></u>		

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	•	
*Do not use and store the product	in condition of gas corrosion	
(Salt,Acid,Alkaline).		
*The products must be preheated		
The operating temperature includi		
*Rework by soldering iron;Please		
*In case of insert P.C. Board on cl		ess to the product.
*Be careful to arrange of non-mag		
The error may be caused by magr		
*In case handle the products, plea	ise use wrist strap for ground stat	ic discharge on
human body.		
The product keeps away from mag		
*Do not use the product beyond th	ne 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		
equipment, computer equipment,		
equipment, industrial robots) unde		
*The products are not designed or		
listed below, whose performance a		
reliability, or whose failure, malfun		
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		her use exceeding the
range or conditions set forth in this		
1)Aerospace/Aviation equipment	6)Transportation control equi	
2)Military equipment	7)Power-generation control e	
3)Seabed equipment	which directly endanger hu	
4)Safety equipment	8)Atomic energy-related equip	
5)Medical equipment	9)Other applications that are	
	considered general-purpose	
If you intend to use the products in	n the following applications, pleas	e contact our sales
office.		• · · ·
Transportation equipment (cars, e		
equipment, Electric heating appara	atus / burning equipment, Disaste	r prevention/crime
prevention equipment		
When using this product in genera		
take into consideration securing p	rotection circuit/equipment or prov	/iding backup circuits,
etc., to ensure higher safety.		
		
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en ASDI Electronics Co.,Ltd.	ASDIQ-SPE-148(00)	ISSUE

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2.Manufacturing Location

China

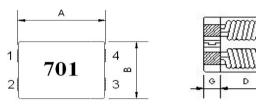
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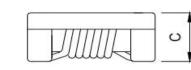
(1)Features

1. Operating temperature -40~+125 $^\circ\!\!\!{}^\circ\!\!\!{}^\circ$ (Including self - temperature rise)



(2)Dimensions





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Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
ASCM7060	7.0±0.5	6.0±0.5	3.8 max.	3.5 typ.	1.5±0.5	1.5±0.5	1.7±0.5

(3)Part Numbering

ASC	M 7060	F	Α	S	F	-	701	 LM
А	В	С	D	E	F		G	н
A: Series	3							
B: Dimer	nsion							
C: Mater	ial	Ferrite Core						
D: Proce	SS	Asembled						
E: Type		S=Shielded, N	I=Unshielded					
F: Lead f	free	,						
G: Imped		701=700Ω						

G: Impedance H: Laser Marking

(4)Electrical Specification Table 1_____

	Impeda	ance (Ω)	Test	DC	Deted Current	Deted Valt	Insulation
ASDI Part Number	min.	typ.	Frequency (MHz)	Resistance (mΩ) max. (1 line)	Rated Current (A) max.	Rated Volt. (Vdc) max.	Resistance (MΩ) min.
ASCM7060FASF-400-LM	40	70	100	5	15	80	10
ASCM7060FASF-650-LM	65	100	100	5	14	80	10
ASCM7060FASF-101-LM	100	140	100	10	9	80	10
ASCM7060FASF-301-LM	225	300	100	10	5	80	10
ASCM7060FASF-501-LM	400	500	100	10	5	80	10
ASCM7060FASF-601-LM	500	700	100	15	4	80	10
ASCM7060FASF-701-LM	500	700	100	15	4	80	10
ASCM7060FASF-102-LM	800	1020	100	17	3	80	10
ASCM7060FASF-132-LM	910	1300	100	20	3	80	10

Note:

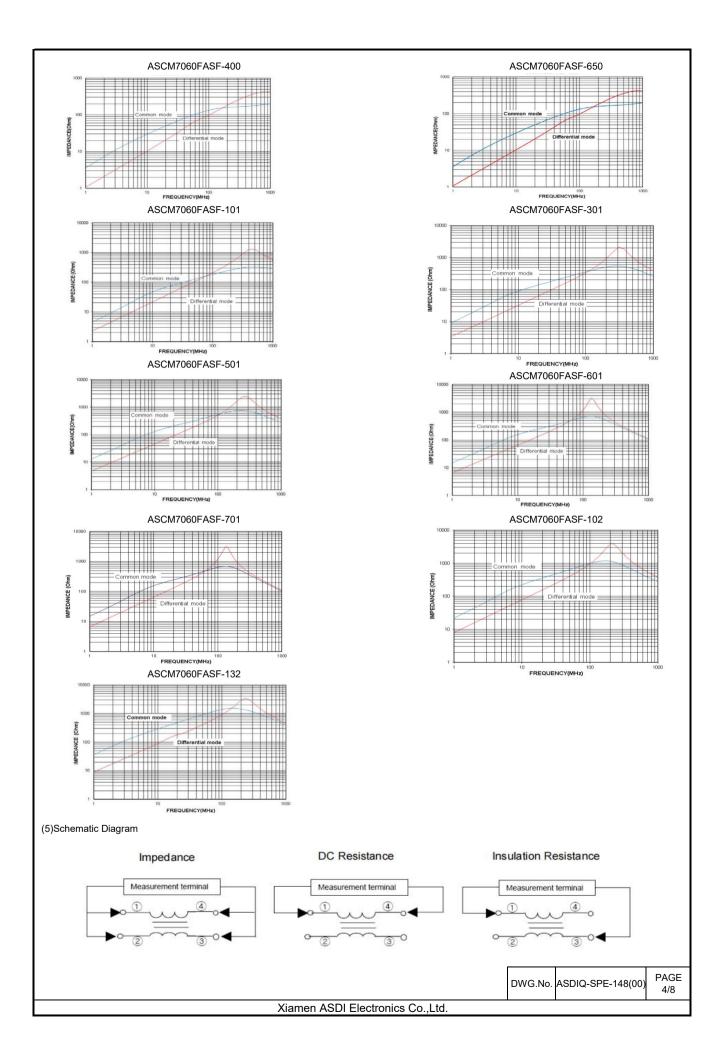
Measurement board data

Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

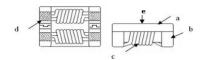
Pattern dimensions: 45 X 30 mm (Double side board) Pattern thickness : 50 µm

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(6)Material List

No.	Description	Specification
a.	Upper Plate	Ceramics Core (Black)
b.	Core	Ferrite Core
С.	Wire	Enameled Copper
d.	Termination	Ag/Ni/Sn + Sn Solder
e.	Mark	Laser Marking



(7)Reliability Tests

No.	Test item	Performance	Test details	
1	Operating temperature	-40∼+125 ℃ (Including self - temperature rise)		
2	Storage temperature	-40~+125 ℃ (on board)		
		Electrical Performance	Test	
3	Z(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 ∆T 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/JEDEC J-STD-020DClassification Reflow Profiles) Temperature: 125±2°C Applied current: rated current Duration: 1000±12hrs Measured at room temperature after placing for 24±2 hrs Preconditioning: Run through IR reflow for 2 times.(
8	Load Humidity		IPC/JEDEC J-STD-020DClassification Reflow Profiles Humidity: 85±2% R.H, Temperature: 85℃±2℃ Duration: 1000hrs Min. with 100% rated current Measured at room temperature after placing for 24±2 hrs	
9	Moisture Resistance	Appearance: No damage. nductance: within±10% of initial value mpedance: within±15% of initial value 2: Shall not exceed the specification 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 at50℃ for 25hrs, measured at room temperature after placing for 4 hrs. 2. Raise temperature to 65±2℃ 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25℃ in 2.5hrs. 3. Raise temperature to 65±2℃ 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25℃ in 2.5hrs,keep at 25℃ for 2 hrs then keep at -10℃ for 3 hrs 4. Keep at 25℃ 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 time IPC/JEDEC J-STD-020DClassification Reflow Profiles Condition for 1 cycle Step1: -40±2℃ 30±5min Step2: 25±2℃ 30±5min Step3: 125±2℃ 30±5min Number of cycles: 500 Measured at room temperature after placing for 2		
11 Vibration			Oscillation Frequency: 10Hz~2KHz~10Hz for 20 minute Equipment: Vibration checker Total Amplitude:10g Testing Time : 12 hours(20 minutes, 12 cycles each of 3 orientations)。 Test the quantity: 15pcs	
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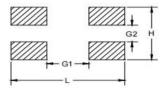
No.	Test item	Performance	Test details			
13	Bending	Appearance: No damage. Impedance: within±15% of initial value Q: Shall not exceed the specification value. RDC: within ±15% of initial value and shall not exceed the specification value	Shall be mounted on a FR4 substrate of the following dimensions: >=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		Type Peak value (g's) Normal duration (D) (ms) Wave form Velocity change (Vi)ft/sec 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 10 ±1 25mm/s ±6 mm/s 1			
17	Terminal Strength	Appearance: No damage. Impedance: within±15% of initial value Q: Shall not exceed the specification 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.			

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(8)Soldering and Mounting

8-1, Recommended PC Board Pattern

	ASCM7060			
L(mm)	8.0			
H(mm)	4.5			
G1(mm)	3.5			
G2(mm)	1.5			



8-2, 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.

8-3,Lead Free Solder re-flow:

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

8-4, Soldering Iron(Figure 2):

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°C

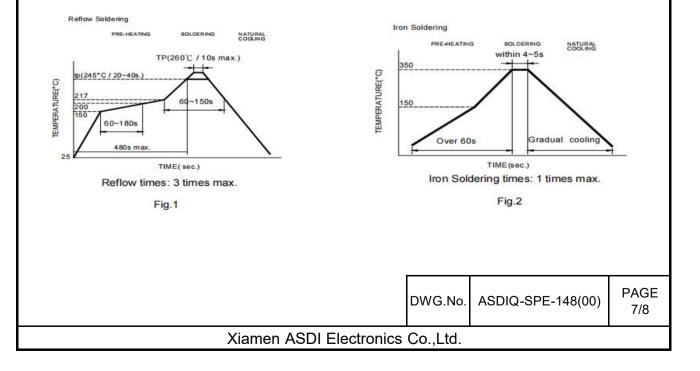
Never contact the ceramic with the iron tip

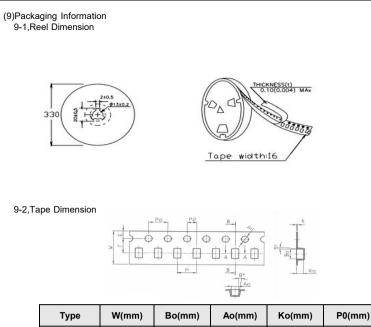
·Use a 20 watt soldering iron with tip diameter of 1.0mm

·350°C tip temperature (max)

·1.0mm tip diameter (max)

Limit soldering time to 4~5 sec.



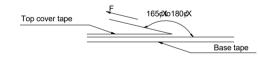


Туре	W(mm)	Bo(mm)	Ao(mm)	Ko(mm)	P0(mm)	P2(mm)	F(mm)	E(mm)	P(mm)	t(mm)
ASCM7060	16.00+0.3 /-0.1	7.50±0.1	6.3±0.1	3.8±0.1	4.0±0.1	2.0±0.1	7.5±0.1	1.75±0.1	12.0±0.1	0.35±0.05

9-3, Packaging Quantity

Chip size	Chip/Reel		
ASCM7060	1500		

9-4, Tearing Off Force



The force for tearing off cover tape is 15 to 80 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

(10)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

Pransportation
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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