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To :			SPEC.No. ASD Date: Aug	NQ-SPE-122(00) .07,2022
		ER'S PRODUCT N	AME	
	ASDI PRO	DUCT NAME:		
	MBSF10	05KF-SERIES		
	ITIONAL CONSENT		CONDITIONAL CC	INSENT
	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.07,2022	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 within 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). *The products must be preheated before soldering. The operating temperature including self-generated heat must be within '-55~+125 $^\circ C$ Rework by soldering iron: Please keep the mentioned conditions in this specification. *In case of insert P.C. Board on chassis, do not add mechanical stress to the product. *Be careful to arrange of non-magnetic field type inductors. The error may be caused by magnetic field coupling. In case handle the products, please use wrist strap for ground static discharge on human bodv. The product keeps away from magnet or magnetized things. *Do not use the product beyond the mentioned conditions in this specification. *About an application The products listed on this specification sheet are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition. *The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this specification sheet. 1)Aerospace/Aviation equipment 6)Transportation control equipment 2)Military equipment 7)Power-generation control equipment 3)Seabed equipment which directly endanger human life 4)Safety equipment 8)Atomic energy-related equipment 5)Medical equipment 9)Other applications that are not considered general-purpose applications If you intend to use the products in the following applications, please contact our sales office. Transportation equipment (cars, electric trains, ships, etc.), Public information-processing equipment, Electric heating apparatus / burning equipment, Disaster prevention/crime prevention equipment When using this product in general-purpose applications, you are kindly requested to take into consideration securing protection circuit/equipment or providing backup circuits, etc., to ensure higher safety. DWG.No. Xiamen ASDI Electronics Co.,Ltd. ISSUE ASDIQ-SPE-122(00)

CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
	MBSF1005KF-SERIES	

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2.Manufacturing Location

China

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Xiamen ASDI Electronics	Co.,Ltd.		

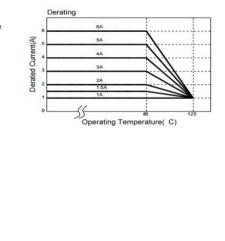
3.S.M.T. type 4.Suitable for 5.Shapes and 6.Available in 7.Excellent so 8.High reliabil	netic circuit ave flow and reflow I dimensions fo various sizes. olderability and ity.	v soldering. Ilow E.I.A. spec. heat resistance.	ation and also supp	ort lead-free sole	dering		
mensions			allon and alloe supp		uonng		
	-						
L	A						
		0					
_		В					
Chip Size	Α	В	С	D			
-	1.00±0.10	0.50±0.10	0.50±0.10	0.25±0.10			
art Numbering							
MBSF	1005 в	KF	-	121	T E	01 F	
A: Series	В	С		D	E	F	
C: Material D: Impedance E:Packaging F:Rated Curre	e 121=12 T=Tapii	ng and Reel, B=Bul	k(Bags)	Ĺ		Ag(100%) Ni(100%)-1.5um (Sn(100%)-3.0um arrite Body (Pb Free)	
ectrical Specificatio	ns					ante body (Po Tree)	
ole 1	ns rt Number	Impedance (Ω)	Test Frequency (MHz)	DC Resista (Ω) max	ance	Rated Current (mA)	
ASDI Par		Impedance (Ω) 10±25%			ance	Rated Current	
ASDI Par MBSF1005 MBSF1005	rt Number 5KF-100T05 5KF-110T05	10±25% 11±25%	(MHz) 100 100	(Ω) max 0.20 0.20	ance	Rated Current (mA) 500 500	
ASDI Par MBSF1005 MBSF1005 MBSF1005	rt Number 5KF-100T05 5KF-110T05 5KF-300T03	10±25% 11±25% 30±25%	(MHz) 100 100 100	(Ω) max 0.20 0.20 0.20	ance	Solution Solution 500 500 500 300	
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MBSF1005 MBSF1005 MBSF1005 MBSF1005 MBSF1005 MBSF1005 MBSF1005	rt Number 5KF-100T05 5KF-110T05 5KF-300T03 5KF-330T05	10±25% 11±25% 30±25% 33±25% 47±25%	(MHz) 100 100 100 100 100	(Ω) max 0.20 0.20 0.20 0.20 0.25	ance	Solution Solution 500 500 500 300 500 500 500 500 500 500	
MBSF1005 MBSF1005 MBSF1005 MBSF1005 MBSF1005 MBSF1005 MBSF1005 MBSF1005	rt Number 5KF-100T05 5KF-110T05 5KF-300T03 5KF-330T05 5KF-470T05 5KF-600T03	10±25% 11±25% 30±25% 33±25% 47±25% 60±25%	(MHz) 100 100 100 100 100 100	(Ω) max 0.20 0.20 0.20 0.20 0.25 0.25	ance	Solution Solution 500 500 500 300 500 500 500 500 500 300 500 300	
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	Test item	Performance	Test details		
0	Series	MBPF MBSF			
1	Operating temperature	- 55~+125℃			
2	Storage temperature	- 55~+125 ℃			
3	Impedance (Z)				
4	Inductance (Ls)		HP4291A, HP4287A+16092A		
5	Q Factor	Refer to standard electrical characteristics list			
6	DC Resistance		HP4338B		
7	Rated Current		**		
8	Temperature Rise Test	30℃ max. (ΔT)	 Applied the allowed DC current. Temperature measured by digital surface thermometer. 		
9	Solder heat Resistance	Appearance: No significant abnormality. Impedance change: Within ± 30%.	Preheat: 150°C,60sec. Solder: Sn-Ag3.0-Cu0.5 Solder tamperature: 260±5°C Flux for lead free: rosin Dip time: 10±0.5sec.		
10	Solderability	More than 90% of the terminal electrode should be covered with solder.	Preheat: 150°C,60sec. Solder: Sn-Ag3.0-Cu0.5 Solder tamperature: 230±5°C Flux for lead free: rosin Dip time: 4±1sec.		
11	Terminal strength	The terminal electrode and the dielectric must not be damaged by the forces applied on the right conditions.	Size Force (Kfg) Time(sec) 1005 0.2 1608 0.5 2012 0.6 3216 1.0 4516 1.0 4532 1.5 5750 2.0		
12	Flexture strength	The terminal electrode and the dielectric must not be damaged by the forces applied on the right conditions.	Solder a chip on a test substrate, bend the substrate by 2mm (0.079in)and return.		
13	Bending Strength	The ferrite should not be damaged by Forces applied on the right condition.	Size mm(inches) P-Kgf 1608 0.80(0.033) 0.3 2012 1.40(0.055) 1.0 3216 2.00(0.079) 2.5 4516 4532 2.70(0.106) 2.5		
14	Random Vibration Test	Appearance: Cracking, shipping and any other defects harmful to the characteristics should not be allowed. Impedance: within±30%	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 perpendicular directions (Total 6 hours).		

No.	Test item	Performance	Test details
15	Drop	Drop 10 times on a concrete floor from a height of 75cm	a: No mechanical damage b: Impedance change: ±30%
16	Loading at High Temperature	Appearance: no damage.	Humidity: 90~95%RH. Temperature: 40±2°C. Duration: 500±12hrs. Measured at room temperature after placing for 2 to 3hrs.
17	Humidity	Inductance: within±10%of initial value.	Humidity: 90~95%RH. Temperature: 40±2°C. Duration: 500±12hrs. Measured at room temperature after placing for 2 to 3hrs.
18	Thermal shock	Appearance: no damage. Impedance: within±30%of initial value. For Bead : Phase Temperature(°C) Time(min.) 1 -55±2°C 30±3 2 +125±5°C 30±3 Measured: 5 times	ForMBPF MBSF : Condition for 1 cycle Step1: -55±2°C 30±3 min. Step2: +125±5°C 30±3 min. Number of cycles: 5
19	Low temperature storage test		Temperature: -55±2℃. Duration: 500±12hrs. Measured at room temperature after placing for 2 to 3hrs.
20	Drop	Drop 10 times on a concrete floor from a height of 75cm	a: No mechanical damage b: Impedance change: ±30%

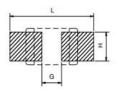
**Derating Curve

For the ferrite chip bead which withstanding current over 1.5A, as the operating temperature over 85°C, the derating current information is necessary to consider with. For the detail derating of current, please refer to the Derated Current vs. Operating Temperature curve.



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(6)Soldering and Mounting 6-1,Recommended PC Board Pattern



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.

6-2,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. The 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.

6-2,1 Lead Free Solder re-flow:

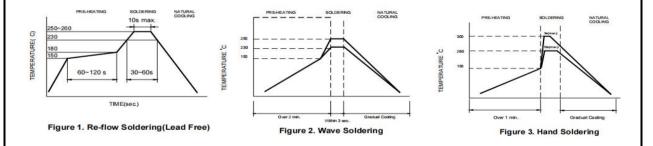
Recommended temperature profiles for lead free re-flow soldering in Figure 1.

6-2,2 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 , typical at 230°C. 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.

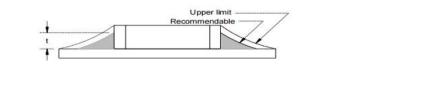
6-2,3 Soldering Iron(Figure 3):

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.



6-2,4 Solder Volume:

Accordingly increasing the solder volume, the mechanical stress to product is also increased. Exceeding solder volume may cause the failure of mechanical or electrical performance. Solder shall be used not to be exceed as shown in right side:



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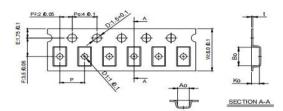


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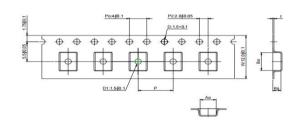
(7)Packaging Information 7-1,Reel Dimension

Туре	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	9.0±0.5	60.0±2.0	13.5±0.5	178.0±2.0
7"x12mm	13.5±0.5	60.0±2.0	13.5±0.5	178.0±2.0

7-2,1 Tape Dimension / 8mm



7-2,2 Tape Dimension / 12mm

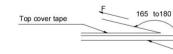


7-3, Packaging Quantity

Chip Size	575018	453215	451616	322513	321611	201212	201209	160808	100505
Chip / Reel	1000	1000	2000	2500	3000	2000	4000	4000	10000
In ner box	4000	4000	8000	12500	15000	10000	20000	20000	50000
Middle box	20000	20000	40000	62500	75000	50000	100000	100000	250000
Carton	40000	40000	80000	125000	150000	100000	200000	200000	500000
Bulk (Bags)	7000	12000	20000	30000	50000	100000	150000	200000	300000

7-4, Tearing Off Force

(8)Note



F 165 to180				15 to 60 grams ing conditions.
	Room Temp.	Room Humidity	Room atm (hPa)	Tearing Speed
Base tape	5~35	(%) 45~85	(nPa) 860~1060	300
-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% M: 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 perspir 2. The use of tweezers or vacuum pick up is strongly recommended for individual comp 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.	ation and skin o	ils.		

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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

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