	<u> </u>	CIFICAT	SPEC.No. AS	SDIQ-SPE-187(00) ct.26,2022
То :				
	ASDI PR	ER'S PRODUCT NA ODUCT NAME: 52010NF-SERIES	ME	
	IATION		CONDITIONAL CO	ONSENT
	APPROVED		CHECKED	
ASDI SIGNATURE	APPROVED Xianglong Li	CHECKED Liang Wang	PREPARED Jiayin Cai]



REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Oct.26,2022	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 within	12 monthes.	
Focus on the storage conditions.		
Solderability may become weak if it	exceeds the period.	
*Do not use and store the product i	-	
(Salt,Acid,Alkaline).		
*The products must be preheated b	efore soldering.	
	g self-generated heat must be within '-	25 ~ +125 ℃.
	eep the mentioned conditions in this sp	
	assis, do not add mechanical stress to	
*Be careful to arrange of non-magr		producti
The error may be caused by magne		
	e use wrist strap for ground static disc	harge on human body.
The product keeps away from mag		ge en naman soay.
	e mentioned conditions in this specifica	tion.
*About an application		
	ation sheet are intended for use in gene	eral electronic
equipment		
	s equipment, home appliances, amuse	ment equipment.
	ipment, office equipment, measuremer	
robots) under a normal operation a		
	warranted to meet the requirements of	the applications listed
	quality require a more stringent level of	
	e could cause serious damage to socie	
	responsible for any damage or liability	
	pelow or for any other use exceeding the	
set forth in this specification sheet.	, , , , , , , , , , , , , , , , , , , ,	0
1)Aerospace/Aviation equipment	6)Transportation control equipment	
2)Military equipment	7)Power-generation control equipme	ent
3)Seabed equipment	which directly endanger human lif	
4)Safety equipment	8)Atomic energy-related equipment	-
5)Medical equipment	9)Other applications that are not	
e)ea.ea.equipe	considered general-purpose applic	
	conclucion general parpece applic	cations
If you intend to use the products in	the following applications please contains	
	the following applications, please conta actric trains, ships, etc.), Public informa	act our sales office.
Transportation equipment (cars, ele	ectric trains, ships, etc.), Public informa	act our sales office. tion-processing
Transportation equipment (cars, ele equipment, Electric heating appara		act our sales office. tion-processing
Transportation equipment (cars, ele equipment, Electric heating appara equipment	ectric trains, ships, etc.), Public informa tus / burning equipment, Disaster preve	act our sales office. tion-processing ention/crime prevention
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Transportation equipment (cars, ele equipment, Electric heating appara equipment When using this product in general consideration securing protection c	ectric trains, ships, etc.), Public informa tus / burning equipment, Disaster preve -purpose applications, you are kindly re	act our sales office. tion-processing ention/crime prevention equested to take into

CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
	AMPV252010NF-SERIES	

1.INDEX

Listed item	Attachment&Tables	Page
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5.Reliability Tests	Please see (5)	4/6
6.Packaging	Please see (6)	6/6
7.Taping Dimensions	Please see (7)	6/6
8.Reel Dimensions	Please see (8)	6/6
9.Quantity	Please see (9)	6/6

2.Manufacturing Location

China

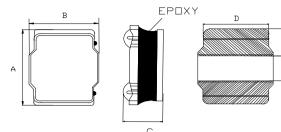
			DAGE
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Xiamen ASDI Ele	ectronics	Co.,Ltd.	

(1)Features

1.This specification applies Low Profile Power Inductors. 2.100% Lead(Pb) & Halogen-Free and RoHS compliant.



(2)Dimensions



		L				Units: mm	
Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	
AMPV252010NF	2.5+0.2 /-0.2	2.2+0.2 /-0.2	1.05MAX	1.65REF	0.8REF	0.9REF	

E

(3)Part Numbering

AMPV	252010	NF	-	2R2	м
А	В	С		D	Е

2R2=2.2µH

A: Series

B: Dimension

C: Control Code

D: Inductance

E: Inductance Tolerance M=20%(K=10%, N=30%)

(4)Electrical Specifications

Table 1

ASDI Part Number	Inductance (µH)	Test Frequency (MHz)	Tolerance (%)	DCR (mΩ)MAX	DCR (mΩ)TYP	l sat (A)	l rms (A)
AMPV252010NF-R24N	0.24	1MHz/1V	30%	26	21	5.00	4.40
AMPV252010NF-R33N	0.33	1MHz/1V	30%	35	25	4.80	4.00
AMPV252010NF-R47N	0.47	1MHz/1V	30%	45	33	4.40	3.40
AMPV252010NF-R56N	0.56	1MHz/1V	30%	48	39	3.80	3.10
AMPV252010NF-R68N	0.68	1MHz/1V	30%	59	46	3.20	3.00
AMPV252010NF-1R0M	1.00	1MHz/1V	20%	76	60	3.10	2.60
AMPV252010NF-1R5M	1.50	1MHz/1V	20%	106	82	2.60	2.00
AMPV252010NF-2R2M	2.20	1MHz/1V	20%	155	112	1.90	1.80
AMPV252010NF-3R3M	3.30	1MHz/1V	20%	235	175	1.60	1.50
AMPV252010NF-4R7M	4.70	1MHz/1V	20%	276	230	1.30	1.20
AMPV252010NF-6R8M	6.80	1MHz/1V	20%	430	360	1.10	1.00
AMPV252010NF-100M	10.0	1MHz/1V	20%	520	465	0.90	0.85

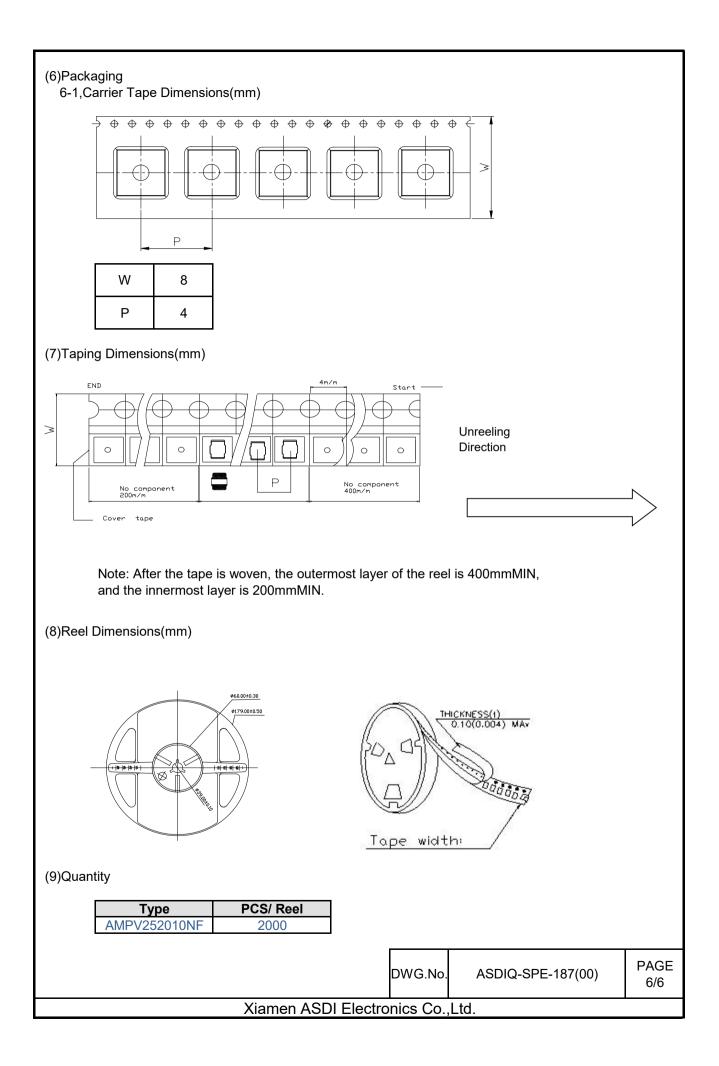
 $\label{eq:lsat:Based on inductance change ($\Delta L/L0: $\leq 30\% $)$ @ ambient temp. 25°C Irms: Based on temperature rise (Irms(A) $\Delta T $\leq 40°C $)$ }$

DWG.No. ASDIQ-SPE-187(00)

Xiamen ASDI Electronics Co.,Ltd.

Items	Requirements	Test Methods and Remarks
Resistance to Soldering Heat	1.No visible mechanical damage 2.Inductance change: W ithin ±5%	1.Solder on PCB to Reflow test Peak Temp. 260±5°C 5~10 secs ,Cycles :2 times.Re-flowing Profile: Please refer to Fig- 1 2.Test board thickness: 1.5mm 3.Test board material: glass epoxy resin 4.The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made.product showed no damage under microscope.(for microscope of Shun Yu SZM-45 20X) (Fig- 1) 260°C 217°C Max Ramp Up Rate=3°C/sec 150°C 10
		25°C
High Temperature	1.No visible mechanical damage 2.Inductance change: W ithin ± 10%	 1.Temperature: 125±2°C 2.Duration: 1000 hours 3.The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made.
Steady	1.No visible mechanical damage	1.Temperature:85℃
damp-heat	2.Inductance change: W ithin ± 10%	 2.Humidity: 85% RH 3.Duration:1000 hours 4.The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made.
Mechanical Vibration	1.No visible mechanical damage 2.Inductance change: W ithin ± 10%	1.Frequency: 10HZ~55HZ~10HZ/Min Cycles 2.Amplitude: 1.5 mm 3.Directions: X,Y,Z 4.Time: 2 hours in each directions (total of 6 hours)

Items	Requirements	Test Methods and Remarks
Thermal Shock	1.No visible mechanical damage 2.Inductance change: W ithin ± 10%	1. Temperature and time: -40 °C for 30±3 min→ 125 °C for 30±3min, please refer to Fig-2 2. Transforming interval: Max. 3 Min 3. Tested cycle: 1000 cycles 4. The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made. (Fig-2) 125°C 30±3min 30±3min Ambient 30±3min Temperature 40°C 30±3min 30±3min 3 Min (max.)
Salt Spray	1.No visible mechanical damage 2.Inductance change: W ithin ± 10%	1.Salt concentration: $(5 \pm 1)\%$ (mass percent) 2.pH value:6.5 - 7.2 3.temperature: 35 ± 2 °C 4.humidity: 85% 5.time: 24 hours 6.in normal temperature and humidity for 1 ~ 2 hours, testing inductance, the inductance value change can not be more than before test $\pm 10\%$.
Terminal strength	1.The peak thrust is greater than 10N	 1.The electrode of the inductor is soldered to the PCB, to Fig-3 Then apply a force in the X direction of the arrow. 2. 10N force. 3. Keep time: 10(±1)s 4.The first three tests were OK, and the force was applied until the peak value of the product peeling. The test speed was set in the range of 3 ~ 8mm/min.
		DWG.No. ASDIQ-SPE-187(00)



单击下面可查看定价,库存,交付和生命周期等信息

>>ASDI