	<spf< th=""><th>ECIFICA</th><th>TION></th><th></th></spf<>	ECIFICA	TION>	
	- OI L	.011 107 (ASDIQ-SPE-102(00) Jul.25,2022
To:				
	ASDI PR	ER'S PRODUCT I ODUCT NAME: 2010NF-SERIES	NAME	
RECEIPT CONFIRM	MATION		CONDITIONAL	. CONSENT
	APPROVED		CHECKED	
ASDI SIGNATURE				
	APPROVED Xianglong Li	CHECKED Liang Wang	PREPARED Jiayin Cai	



REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Sep.30,2022	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 '- 25 ~ +125 ℃.

*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 body.

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
2)Military equipment
3)Seabed equipment
4)Safety equipment
5)Medical equipment
9)Transportation control equipment
7)Power-generation control equipment
which directly endanger human life
8)Atomic energy-related 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.

Xiamen ASDI Electronics Co.,Ltd.

DWG.No. ASDIQ-SPE-102(00)

ISSUE

CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
	AMPI252010NF-SERIES	

1.INDEX

Listed item	Attachment&Tables	Page
1.Features	Please see (1)	3/6
2.Dimensions	Please see (2)	3/6
3.Part Numbering	Please see (3)	3/6
4.Electrical Specifications	Please see (4)	3/6
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

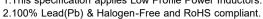
China

DWG.No. ASDIQ-SPE-102(00) PAGE 2/6

Xiamen ASDI Electronics Co.,Ltd.

(1)Features

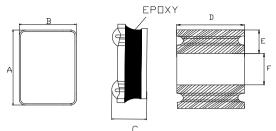
1. This specification applies Low Profile Power Inductors.







(2)Dimensions



Units: mm Series A(mm) B(mm) C(mm) D(mm) E(mm) F(mm) 2.5+0.3 2.0+0.35 2.0+0.35 AMPI252010NF 1.05MAX 0.825±0.3 0.9 ± 0.3 /-0.1 /-0.05 /-0.05

(3)Part Numbering

AMPI 252010 NF 2R2 M В С D Ε

A: Series

B: Dimension

C: Control Code

2R2=2.2µH D: Inductance

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

(4)Electrical Specifications

Table 1

ASDI Part Number	Inductance (µH)	Test Frequency (MHz)	Tolerance (%)	DCR (mΩ)MAX	DCR (mΩ)TYP	I sat (A)	I rms (A)
AMPI252010NF-R33N	0.33	1MHz/0.1V	30%	38	28	3.50	2.70
AMPI252010NF-R47N	0.47	1MHz/0.1V	30%	42	28	2.57	2.57
AMPI252010NF-R68N	0.68	1MHz/0.1V	30%	49	39	2.30	2.30
AMPI252010NF-1R0M	1.00	1MHz/0.1V	20%	66	55	2.05	2.05
AMPI252010NF-1R5M	1.50	1MHz/0.1V	20%	108	88	1.70	1.50
AMPI252010NF-2R2M	2.20	1MHz/0.1V	20%	145	125	1.55	1.55
AMPI252010NF-3R3M	3.30	1MHz/0.1V	20%	204	172	1.10	1.10
AMPI252010NF-4R7M	4.70	1MHz/0.1V	20%	300	255	0.95	0.95
AMPI252010NF-6R8M	6.80	1MHz/0.1V	20%	444	380	0.90	0.80
AMPI252010NF-100M	10.00	1MHz/0.1V	20%	564	520	0.65	0.60
AMPI252010NF-150M	15.00	1MHz/0.1V	20%	960	890	0.55	0.45
AMPI252010NF-220M	22.00	1MHz/0.1V	20%	1344	1030	0.40	0.40

Irms: Based on temperature rise (Irms(A) $\Delta T \leq 40^{\circ}C$)

PAGE DWG.No. ASDIQ-SPE-102(00) 3/6

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 not damage under microscope.(for microscope of Shun Yu SZM-45 20X) (Fig- 1) 260°C Max Ramp Down Rate=8°C/sec 200°C Max Ramp Down Rate=8°C/sec 60 90sec
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 damp-heat	1.No visible mechanical damage 2.Inductance change: W ithin ± 10%	1.Temperature:85°C 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)

	DWG.No.	ASDIQ-SPE-102(00)	PAGE 4/6
_	Ltd		

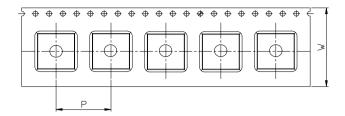
Xiamen ASDI Electronics Co.,Ltd.

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 th measurement shall be made. (Fig-2) 125 °C 30±3min 30±3min Ambient Temperature 40 °C 30±3min 30±3min
Salt Spray	1.No visible mechanical damage 2.Inductance change: W ithin ± 10%	1.Salt concentration: $(5\pm1)\%$ (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. (Fig-3)

DWG.No. ASDIQ-SPE-102(00) PAGE 5/6

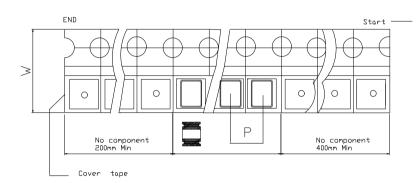
(6)Packaging

6-1, Carrier Tape Dimensions (mm)

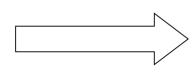


W	8
Р	4

(7)Taping Dimensions(mm)

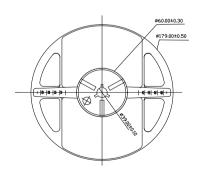


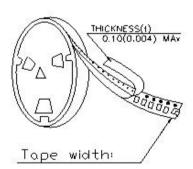
Unreeling Direction



Note: After the tape is woven, the outermost layer of the reel is 400mmMIN, and the innermost layer is 200mmMIN.

(8)Reel Dimensions(mm)





(9)Quantity

Туре	PCS/ Reel
AMPI252010NF	2000

DWG.No. ASDIQ-SPE-102(00)

PAGE 6/6

Xiamen ASDI Electronics Co.,Ltd.

单击下面可查看定价,库存,交付和生命周期等信息

>>ASDI