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To :			SPEC.No. ASI Date: Ma	DIQ-SPE-113(08) r.12,2022
	CUSTOM	ER'S PRODUCT NA	ME	
	ASDI PRO	DDUCT NAME:		
	AMPV25	2012NF-SERIES		
	NATION		_	
	DITIONAL CONSENT		CONDITIONAL CC	DNSENT
	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	Jun.10,2020	New release	Xianglong Li	Liang Wang	Jiayin Cai
01	Aug.25,2020	Added new product name	Xianglong Li	Liang Wang	Jiayin Cai
02	Nov.03,2020	Added new product name	Xianglong Li	Liang Wang	Jiayin Cai
03	Dec.03,2020	Added new product name	Xianglong Li	Liang Wang	Jiayin Cai
04	Dec.18,2020	Added new product name	Xianglong Li	Liang Wang	Jiayin Cai
05	Dec.23,2020	Added new product name	Xianglong Li	Liang Wang	Jiayin Cai
06	May.20,2021	Changed the side spot solder to the bottom solder	Xianglong Li	Liang Wang	Jiayin Cai
07	Jun.18,2021	Changed the labeling of size B	Xianglong Li	Liang Wang	Jiayin Cai
08	Mar.12,2022	Added new product name	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).		
*The products must be preheated	before soldering	
The operating temperature includi	ng self-generated heat must be w	ithin '- 25 ~ +120℃
*Rework by soldering iron:Please	keep the mentioned conditions in	this specification
*In case of insert P.C. Board on ch	hassis 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 stati	c discharge on human
body	se all motorup for ground stat	e algonargo on naman
The product keeps away from may	anet or magnetized things	
*Do not use the product beyond th	e mentioned conditions in this sh	ecification.
*About an application		
The products listed on this specific	cation sheet are intended for use i	n general electronic
equipment		in general electronic
(AV equipment telecommunication	ns equipment home appliances	amusement equipment
computer equipment personal equ	uipment office equipment measu	irement equipment
industrial robots) under a normal c	operation and use condition	i omoni oquipmoni,
*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 t	for any damage or
liability caused by use of the produ	icts in any of the applications belo	w or for any other use
exceeding the range or conditions	set forth in this specification shee	et.
1)Aerospace/Aviation equipment	6)Transportation control equir	oment
2)Military equipment	7)Power-generation control equip	nuipment
3)Seabed equipment	which directly endanger hu	nan life
4)Safety equipment	8)Atomic energy-related equir	oment
5)Medical equipment	9)Other applications that are r	not
-,	considered general-purpose	applications
If you intend to use the products in	the following applications, please	e contact our sales
office.	, pload	
Transportation equipment (cars, e	lectric trains, ships, etc.). Public ir	nformation-processing
equipment. Electric heating appara	atus / burning equipment. Disaste	r prevention/crime
prevention equipment		. L. Sterner, onno
When using this product in genera	l-purpose applications you are ki	ndly requested to take
into consideration securing protect	tion circuit/equipment or providing	backup circuits etc to
ensure higher safety		
checkie mynor ouroty.		
	DWG.No	

CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
	AMPV252012NF-SERIES	

1.INDEX

Listed item	Attachment&Tables	Page
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2.Manufacturing Location

China

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Xiamen	ASDI Electronics Co	o.,Ltd.

(1)Features 1. This specification applies Low Profile Power Inductors. 2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



(2)Dimensions







					Lateral spo	ot welding
Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
AMPV252012NF	2.5±0.3	2.2±0.3	1.25MAX	1.65REF	0.8REF	0.9REF

(3)Part Numbering

AMPV	252012	NF	-	2R2	М
A	В	С		D	E
A: Series					

A: Series B: Dimension C: Control S/N D: Inductance 2R2=2.2µH E: Inductance Tolerance M=±20%; N=±30%

(4)Electrical Specifications Table 1

ASDI Part Number	Inductance (µH)	Tolerance (%)	Test Frequency	DCR (mΩ) MAX	lsat(A) △ L/L0:35%MAX	Irms(A) (The temperature rises to 40℃MAX)
AMPV252012NF-R24N	0.24	±30%	1MHZ/0.1V	35	6.50	4.50
AMPV252012NF-R47N	0.47	±30%	1MHZ/0.1V	48	4.90	3.00
AMPV252012NF-1ROM	1.0	±20%	1MHZ/0.1V	65	3.60	2.90
AMPV252012NF-1R5M	1.5	±20%	1MHZ/0.1V	92	2.90	2.60
AMPV252012NF-2R2M	2.2	±20%	1MHZ/0.1V	130	2.60	2.00
AMPV252012NF-3R3M	3. 3	±20%	1MHZ/0.1V	180	1.70	1.60
AMPV252012NF-4R7M	4.7	±20%	1MHZ/0.1V	260	1.60	1.40
AMPV252012NF-6R8M	6.8	±20%	1MHZ/0.1V	380	1.15	1.10
AMPV252012NF-100M	10.0	±20%	1MHZ/0.1V	480	1.00	0. 80

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(5)Material List

No.	Description	Specification	
a.	Core	Ferrite N4 Core	
b.	Coating	Ероху	
с	Termination	Tin Pb Free	
d	Wire	Enameled Copper Wire	



(6)Reliability Tests

	l est item	Performance	Test details
1	Substrate bending	∆L/Lo≦±5% There shall be no mechanical damage or electrical damege.	The sample shall be soldered onto the printed circuit boardin figure 1 and a load applied unitil the figure in the arrowdirection is made approximately 3mm.(keep time 30 seconds) F(Pressurization) F(Pressurization) PRESSURE ROD figure-1
2	Vibration	$\triangle L/Lo \cong \pm 5\%$ There shall be no mechanical damage or electrical damage.	The sample shall be soldered onto the printed circuit board and when a vibration having an amplitude of 1.52mm and a frequency of from 10 to 55Hz/1 minute repeated should be applied to the 3 directions (X,Y,Z) for 2 hours each. (A total of 6 hours)
3	Solderability	New solder more than 90%.	Flux (rosin, isopropyl alcohol{JIS-K-1522}) shall be coated over the whole of the sample before hard, the sample shall then be preheated for about 2 minutes in temperature of $130 \sim 150^{\circ}$ and after it has been immersed to a depth 0.5mmbelow for 3 ± 0.2 seconds fully in molten solder M705 witha temperature of $245\pm2^{\circ}$. More than 90% of the electrode sections shall be couered with new solder smoothly when the sample is taken out of the solder bath.
4	Resistance to Soldering heat (reflow soldering)	There shall be no damage or problems.	Temperature profile of reflow soldering 300 300 300 300 300 300 300 30
5	Insulation resistance	There shall be no other damage or problems.	for 1 hour, after which the measurement shall be made DC 100V voltage shall be applied across this sample of top surface and the terminal. The insulation resistance shall be more than $1 \times 10^8 \Omega$.
6	Dielectric withstand voltage	There shall be no other damage or problems.	AC 100V voltage shall be applied for 1 minute acrosse the topsurface and the terminal of this sample
	Temperature	∆L/L20℃≦±10%	The test shall be performed after the sample has stabilized in an ambient temperature of - 40 to +125℃,and the value calculated based on the value

	Test item	Performance		Test details		
8	High temperature storage	∆L/Lo≦±5% There shall be no mechanica	I damage. I damage.	The sample shall be left for 500 hours in an atmospere with a temperature of 125 ± 2 °C and a normal humidity. Upon completion of the measurement shall be made after the sample has been left in a normal temperature and normal humidity for 1 hour.		
9	Low temperature storage	∆L/Lo≦±5% There shall be no mechanica	I damage.	The sample shall be left for 500 hours in an atmosphere with a temperature of -40±3℃. Upon completion of the test, the measurement shall be made after the sample has been left in a normal temperature and normal humidity for 1 hour.		
10	Change of temperature	∆L/Lo≦±5% There shall be no oth damage of problem	Iter s	le shall be subject to 5 d in the table 2 below and to standard stmospherio ade. <u>table 2</u> Temperature -40:3°C (Themostat No.1) Standard atmospheric 125:2°C (Themostat No.2) Standard atmospheric	Continuos cycles, such then it shall be c conditions for 1 hour Duration 10 min. 5 sec. or less No.1→No.2 30 min. 5 sec. or less No.2→No.1	
11	Moisuture storage	∆L/Lo≦±5% There shall be no mechanica	I damage. I damage. I damage.	The sample shall be left for 500 hours in a temperature of 40±2°C and a humidity(RH) of 90~95%. Upon completion of the test, the measurement shall be made after the sample has been left in a normal temperature and normal humidity more than 1 hour.		





单击下面可查看定价,库存,交付和生命周期等信息

>>ASDI