<specification></specification>
SPEC.No. ASDIQ-SPE-146(02) Date: Jun.02,2022
CUSTOMER'S PRODUCT NAME ASDI PRODUCT NAME: SPI12575N-SERIES
RECEIPT CONFIRMATION UNCONDITIONAL CONSENT CONDITIONAL CONSENT APPROVED CHECKED
ASDI SIGNATURE APPROVED CHECKED PREPARED Xianglong Li Liang Wang Jiayin Cai



Г

Xiamen ASDI Electronics Co.,Ltd.

REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Apr.30,2022	New release	Xianglong Li	Liang Wang	Jiayin Cai
01	Jun.01,2022	Add SPI12575N-330M and SPI12575N-470M	Xianglong Li	Liang Wang	Jiayin Cai
'02	Jun.02,2022	Add SPI12575N-100M	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 wit	thin 12 monthes				
Focus on the storage conditions					
Solderability may become weak					
*Do not use and store the produ		on			
(Salt,Acid,Alkaline).	6				
*The products must be preheate	ed before soldering.				
The operating temperature inclu-		ist be within '- 40 ~ +125 $^{\circ}$ C.			
*Rework by soldering iron;Pleas	e keep the mentioned condition	tions in this specification.			
*In case of insert P.C. Board on					
*Be careful to arrange of non-ma	agnetic field type inductors.	-			
The error may be caused by may	ignetic field coupling.				
*In case handle the products, ple	ease use wrist strap for grou	ind static discharge on			
human body.		-			
The product keeps away from m	nagnet or magnetized things.				
*Do not use the product beyond	the mentioned conditions in	this specification.			
*About an application					
The products listed on this speci	ification sheet are intended f	or use in general electronic			
equipment					
(AV equipment, telecommunicat	tions equipment, home appli	ances, amusement			
equipment, computer equipment					
equipment, industrial robots) uno					
*The products are not designed	or warranted to meet the rec	quirements of the			
applications listed below, whose					
level of safety or reliability, or wh					
damage to society, person or pro					
for any damage or liability cause					
below or for any other use excee	eding the range or conditions	s set forth in this			
specification sheet.					
1)Aerospace/Aviation equipment					
2)Military equipment	7)Power-generation co				
3)Seabed equipment	which directly endar				
4)Safety equipment	8)Atomic energy-relate				
5)Medical equipment	9)Other applications th				
If you intend to use the products	considered general-p				
If you intend to use the products office.	s in the following applications	s, please contact our sales			
	electric trains shins atc.)	Public information			
Transportation equipment (cars,					
processing equipment, Electric h prevention/crime prevention equ					
1. · · · · ·	When using this product in general-purpose applications, you are kindly requested to				
take into consideration securing					
circuits, etc., to ensure higher sa					
	aloty.				
SDI Electronics Co.,Ltd.	DWG.No.	ISSUE			
	ASDIQ-SPE-146(02)	10002			

CUSTOMER	ASDI PART No. SPI12575N-SERIES	CUSTOMER'S	DWG NO.
1.INDEX			
Listed item	Attachment&Tables	Page	
1.Features	Please see (1)	3/5	
2.Dimensions	Please see (2)	3/5	
3.Part Numbering	Please see (3)	3/5	
4.Electrical Specifica	ations Please see (4)	3/5	
5.Reliability Tests	Please see (5)	4/5	
6.Packaging Informa	ation Please see (6)	5/5	
7.Note	Please see (7)	5/5	
2.Manufacturing Location			
China			
	DWG.NO.	ASDIQ-SPE-146(02)	PAGE
			2/5
	Xiamen ASDI Electronics C	ט.,בוט.	

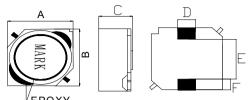
(1)Features

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





(2)Dimensions



FPOXY

						UNIT:mm
Series	А	в	с	D	E	F
SPI12575N	12.5±0.3	12.5±0.3	7.5±0.35	3.0REF	8.5REF	2.0REF

(3)Part Numbering

SPI	12575	N	-	100	Μ
Α	В	С		D	E
A: Series					
B: Dimension					
C: Control S/N	l				
D: Inductance		100=10µH			
E: Inductance	Tolerance	$M = \pm 20\%;$			

(4)Electrical Specifications

Table 1

ASDI Part Number	Inductance (µH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) Max	I sat(A) L/L0:30% MAX	Irms(A) (The temperature rises to 40℃MAX)
SPI12575N-100M	10	±20%	100KHZ/0.25V	19	5.4	4.5
SPI12575N-220M	22	±20%	1KHz/1V	28	4.0	4.0
SPI12575N-330M	33	±20%	100KHZ/0.25V	52	3.2	3.0
SPI12575N-470M	47	±20%	100KHZ/0.25V	65	2.9	2.7
SPI12575N-151M	150	±20%	1KHz/1V	175	1.5	1.6

Note:

lsat: Based on inductance change (\triangle L/L0: \leq -35%) @ ambient temp. 25°C lrms: Based on temperature rise (\triangle T: 40°C typ.)

	DWG.No.	ASDIQ-SPE-146(02)	PAGE 3/5
Xiamen ASDI Electronics Co.,Ltd.			

Newsdamo 10 1.No visible mechanical damage 1.Soldor on PCB to Reflow test Pask Term, 20051°C Soldoring Hent 2.Inductance change: Willin 155 5. Soldor on PCB to Reflow test Pask Term, 20051°C Test based ficheres: 1.form 1.The specime hall be stored at standard strongsperior conditions for 1 hour, after which the measurement shall be made public makes and the mage induction for 1 hour, after which the measurement shall be made public made inscription: 4fgl 1.No visible mechanical damage 1.The previous and the tore of at standard strongsperior conditions for 1 hour, after which the measurement shall be made. Provide 1.No visible mechanical damage 1.The previous BSC 2.Inductance change: Wiltin 10% 1.The previous BSC 2.Inductance change: Wiltin 10% 1.The previous BSC 2.Inductance change: Wiltin 10% 2.Inductance change: Wiltin 10% 2.Inductance change: Wiltin 10% 2.Inductance change: Wiltin 10% 3.Inductance change: Wiltin 10% 2.Inductance change: Wiltin 10% 4.Inductance change: Wiltin 10% 2.Inductance change: Wiltin 10% 5.Inductance change: Wiltin 10% 2.Inductance change: Wiltin 10% 6.Inductance change: Wiltin 10% 1.Inductance change: Wiltin 10% 7.Inductance change: Wiltin 10% 1.Inductance change: Wiltin 10% 1.No visible mechanical demage 1.	Test item	Performance	Test details
Soldering Heat 2.Inductance change: Within 50% 510 scct., 2 times, Re-flowing Profile: Please rofer to Fig-1 2. Test based tackines: 1 Smm 1 -The specime shall be inded at standard atmospheric conditions in the tacket of a standard atmospheric conditions in the measurement halb be made product atmospheric conditions for 1 hour, after which the measurement halb be made. rgn 1 No visible mechanical damage 2.Inductance change: Within 510% 2.Integrature table 50° 1 No visible mechanical damage 2.Integrature table 50° 2.Lundon: 100 hours 3.The specime shall be stord at standard atmospheric conditions for 1 hour, after which the measurement shall be made. Stearly tamp-heat 1 No visible mechanical damage 2.Inductance change: Within 510% 2.Inductance of sectors 50° 2.Inductance change: Within 210% 2.Frequency (M2 - G542 - 1042/Min Cycles 3.Min 3.Directons: XV 2 4.The specime shall be stord at standard atmospheric conditions for 1 hour, after which the measurement shall be made. 4.The specime shall be stord at standard atmospheric conditions for 1 hour, after which the measurement shall be made. INo visible mechanical damage 2.Inductance change: Within 210% 2.Frequency (M2 - G542 - 1042/Min Cycles 2.Inductance change: Within 10% 1.Temperature and time: 4042°C for 30.3 min-1255.2°C for 30.5 min-1255.2°C for 30.5 min-1255.2°C for 30.5 min-1255.2°C	Resistance to	1 No visible mechanical damage	1 Solder on PCR to Reflow test Peak Temp. 260+510
2 0.9 -0.9 sec., 2 minis. Are internet protein Prease time to right 3 1 - test baced fickness: 1.5 mm 4 1 - test baced fickness: 1.5 mm 5 1 - test baced fickness: 1.5 mm <tr< td=""><td>Soldoring Host</td><td></td><td></td></tr<>	Soldoring Host		
3. Tee board material glass poory resit 3. Tee board material glass poory resit 4. The spectram shall be stord at attandard atmospheric conditions for 1 four, after which the measurement shall be made product shall be made product attances (for microscope of Shur Yu S2M-5 20X) Fig.1 sign 1. No visible mechanical damage 2. Inductance change: Within ±10% 1. Temperature 125/2* 2. Inductance change: Within ±10% 2. Temperature 125/2* 2. Inductance change: Within ±10% 1. Temperature 555 2* 3. The spectram shall be stord at standard atmospheric conditions for 1 hour, after which the measurement shall be made. Breakly 1. No visible mechanical damage 2. Inductance change: Within ±10% 1. No visible mechanical damage 2. Inductance change: Within ±10% 1. Temperature 55° 2* 2. Inductance change: Within ±10% 1. Frequency: 1042 - 5542 - 1042/Min Cycles 2. Inductance change: Within ±10% 4. Rechanical 3. Theore thange: Within ±10% 1. Frequency: 1042 - 5542 - 1042/Min Cycles 2. Inductance change: Within ±10% 1. No visible mechanical damage 2. Inductance change: Within ±10% 1. Temperature and time: 4022 C for 3032 min – 12552 C for 3032 min – 1255	Soldening Heat	2.maddanoo onango. whain 2076	
Important International damage International damage International damage Interin ternational dama			
ethogen of Shur VS2A4-5 20X) upper state of Shur VS2A4-5 20X) State of Shur VS2A4-5 20X) Upper state of Shur VS2A4-5 20X) State of Shur VS2A4-5 20X) Upper state of Shur VS2A4-5 20X) State of Shur VS2A4-5 20X) Upper state of Shur VS2A4-5 20X) State of Shur VS2A4-5 20X) Upper state of Shur VS2A4-5 20X) State of Shur VS2A4-5 20X) Upper state of Shur VS2A4-5 20X)			
index Important is grader that provide a standard atmospheric conditions for 1 index 1.No visible mechanical damage 2.Inductance change: Within 110% 1.Temperature 125:52 °C 2.Dualto: 1000 hours 3.Bandy import 1.No visible mechanical damage 2.Inductance change: Within 110% 1.Temperature 55:52 °C 2.Dualto: 1000 hours 3.Bandy import 1.No visible mechanical damage 2.Inductance change: Within 110% 1.Temperature 55:7 2.Dualto: 1000 hours 4.The point and a bas stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made. 1.Temperature 55:7 2.Inductance change: Within 110% 1.No visible mechanical damage 2.Inductance change: Within 110% 1.Frequency: 1042–5542–1042/Min Cycles 2.Inductance change: Within 110% 1.No visible mechanical damage 2.Inductance change: Within 110% 1.Temperature and time: 40±2C for 30±3 min–125±2C for 30±3 min places refer to Fig-2 2.Inductance change: Within 110% 1.No visible mechanical damage 2.Inductance change: Within 110% 1.Temperature and time: 40±2C for 30±3 min–125±2C for 1000 cycles 4.Time 2.Poince in the X direction of the made. 1.No visible mechanical damage 2.Inductance change: Within 110% 1.Temperature and time: 40±2C for 30±3 min– 1250 20±3 min 1.The peak thrust is grader that theoryth 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. 1.No visible mechanical damage theoryth 1.No visible mechanice in the X direction			
initial interval interval interval interval interval interval interval interval interval interval interval interval i			(for microscope of Shun Yu SZM-45 20X)
figh emperature 1.No visible mechanical damage generature 12522° 2. Transforming interval: 100 hours 3.The specimen shall be stored at standard atmospheric conditions for 1 hour, affer which the measurement shall be made. Ready tamp-heat 1.No visible mechanical damage 2. Inductance change: Within 10% 1.Temperature 85° 2. Addition the measurement shall be made. Attended at the specimen shall be stored at standard atmospheric conditions for 1 hour, affer which the measurement shall be made. 1.No visible mechanical damage 2. Inductance change: Within 10% 1.Temperature 85° 2. Addition the measurement shall be made. Attended at the specimen shall be stored at standard atmospheric conditions for 1 hour, affer which the measurement shall be made. 1.No visible mechanical damage 2. Inductance change: Within 10% 1.Temperature and functions (total of 6 hours) Thermal Shock 1.No visible mechanical damage 2. Inductance change: Within 10% 1.Temperature and functions (total of 6 hours) Thermal Shock 1.No visible mechanical damage 2. Inductance change: Within 10% 1.Temperature and functions (total of 6 hours) The peak thrust is greater than 10% 1.Temperature for the inductor is soldered to the PCB. 30° 30° 30° 30° 30° 30° 30° 30° 30° 30°			260 C
figh emperature 1.No visible mechanical damage generature 12522° 2. Transforming interval: 100 hours 3.The specimen shall be stored at standard atmospheric conditions for 1 hour, affer which the measurement shall be made. Ready tamp-heat 1.No visible mechanical damage 2. Inductance change: Within 10% 1.Temperature 85° 2. Addition the measurement shall be made. Attended at the specimen shall be stored at standard atmospheric conditions for 1 hour, affer which the measurement shall be made. 1.No visible mechanical damage 2. Inductance change: Within 10% 1.Temperature 85° 2. Addition the measurement shall be made. Attended at the specimen shall be stored at standard atmospheric conditions for 1 hour, affer which the measurement shall be made. 1.No visible mechanical damage 2. Inductance change: Within 10% 1.Temperature and functions (total of 6 hours) Thermal Shock 1.No visible mechanical damage 2. Inductance change: Within 10% 1.Temperature and functions (total of 6 hours) Thermal Shock 1.No visible mechanical damage 2. Inductance change: Within 10% 1.Temperature and functions (total of 6 hours) The peak thrust is greater than 10% 1.Temperature for the inductor is soldered to the PCB. 30° 30° 30° 30° 30° 30° 30° 30° 30° 30°			Max Ramp Up Rate-31/live.
igh 1. No visible mechanical damage 1. Temperature 1. Temperature <td< td=""><td></td><td></td><td>Max Ramp Down Rates C / 200 00 - 90 Sec.</td></td<>			Max Ramp Down Rates C / 200 00 - 90 Sec.
Image: constraint of the second sec			
ligh temperature 1.No visible mechanical damage 1.Temperature: 125:2°C 2.Inductance change: Within ±10% 2.Duration: 1000 hours 3.The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made. Beady Imp-heat 1.No visible mechanical damage 1.Femperature 85°C 2.Inductance change: Within ±10% 1.Temperature 85°C 2.Inductance change: Within ±10% 1.Temperature 85°C 2.Inductance change: Within ±10% 1.Frequency: 10H2~-55H2~-10H2/Min Cycles 2.Inductance change: Within ±10% 1.Frequency: 10H2~-55H2~-10H2/Min Cycles 2.Inductance change: Within ±10% 1.Frequency: 10H2~-55H2~-10H2/Min Cycles 2.Inductance change: Within ±10% 1.Temperature and time: 4.0±2° C for 30:3 min-125±2°C Tor store of the 2. 2.Inductance change: Within ±10% 1.No visible mechanical damage 1.Frequency: 10H2~-55H2~-10H2/Min Cycles 2.Inductance change: Within ±10% 1.Temperature and time: 4.0±2° C for 30:3 min-125±2°C for 30:3 min please refer tor Fig-2 2.Transforming interval: Max. 3 Min 3.Tested cycle: 1000 cycles 1.The peak thrust is greater than 1.No visible mechanical damage 1.The electrode of the inductor is soldered to the PCB, to Fig-3 1.The peak thrust is greater than 1.The electrode of			
Temperature 2. Inductance change: Within ±10% 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 2. Inductance change: Within ±10% 2. Inductance dranage: Within ±10% 4. The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made. Atechanical 1.No visible mechanical damage 2. Inductance change: Within ±10% 1. Frequency: 10HZ~55HZ~10HZ/Min Cycles 2. Inductance change: Within ±10% 1. Temperature and time: 40±2C for 30±3 min~125±2C 1. No visible mechanical damage 1. Temperature and time: 40±2C for 30±3 min~125±2C 1. No visible mechanical damage 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. 128°C 30±3 min~125±2C for 30±3 min please refer to Fig-2 2. Transforming interval: Max. 3 Min 3. Tested cycle: 1000 cycles 4. The specime shall be tored at standard atmospheric conditions for 1 hour, after which the measurement shall be made. 128°C 30±3 min~125±2 °C 1. The peak thrust is greater than 1. The electrode of the force was applied until the			
Steady tamp-heat 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Temperature 85°C 2.Linuxidity: 65% 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 /bration 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Frequency: 10H2~55H2~10HZ/Min Cycles 2.Ampitude: 1.5 mm 3.Duration: X-Y.Z 4.Time: 2 hours in each directions (total of 6 hours) Phermal Shock 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Temperature and time: 40±2°C for 30±3 min125±2°C for 30±3 min -425±2°C 1 or 30±3 min please refer to Fig-2 2.Inductance change: Within ±10% 1.Temperature and time: 40±2°C for 30±3 min125±2°C for 30±3 min125±2°C 1 or 30±3 min please refer to Fig-2 2.Inductance change: Within ±10% 1.Temperature and time: 40±2°C for 30±3 min125±2°C 1 or 30±3 min		÷	
Steady Imp-heat 1 No visible mechanical damage 2.nductance change: Within ±10% 1 Temperature 85°C 2.Humidity: 85% RH 3.Duration: 1000 horus Mechanical Iteration 1 No visible mechanical damage 2.Inductance change: Within ±10% 1.Frequency: 10HZ10HZ/Min Cycles 2.Inductance change: Within ±10% 2.Inductance change: Within ±10% 1.Frequency: 10HZ10HZ/Min Cycles 2.Inductance change: Within ±10% 1.Temperature and time: -40±2°C for 30±3 min125±2°C for 30±3 min planes refer to Fig-2 2.Inductance change: Within ±10% 1.Temperature and time: -40±2°C for 30±3 min125±2°C for 30±3 min planes refer to Fig-2 2.Inductance change: Within ±10% 1.Temperature and time: -40±2°C for 30±3 min125±2°C for 30±3 min planes refer to Fig-2 2.Inductance change: Within ±10% 1.Temperature and time: -40±2°C for 30±3 min125±2°C for 30±3 min planes refer to Fig-2 2.Inductance change: Within ±10% 1.Temperature and time: -40±2°C for 30±3 min125±2°C for 30±3 min planes refer to Fig-2 1.The plane throat is greater than trength 1.The plane throat 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. 2.1 And the tost is 0X, and the force was applied until the peak value of the product peeling. The test speed was set in the range of 3 ~ 8 mm/min. 3.The speet throat is greater than 10N 1.Salt concentration: (5 ± 1)% (mass percent) 2.Hr within ±10% 2.Hr within ±15% 3.Min first ±2 * C 4.Min within ±15%			
Jamp-heat 2.Inductance change: Within ±10% 2.Humidity: 55% RH Juration 1.No visible mechanical damage 1.Frequency: 10HZ~55HZ~10HZ/Min Cycles Z.Inductance change: Within ±10% 2.Frequency: 10HZ~55HZ~10HZ/Min Cycles Z.Inductance change: Within ±10% 1.Frequency: 10HZ~55HZ~10HZ/Min Cycles Z.Inductance change: Within ±10% 1.Frequency: 10HZ~55HZ~10HZ/Min Cycles Z.Inductance change: Within ±10% 1.Temperature and time: 40s2°C for 30s3 min-125±2°C for 30s3 min-125±2°C for 30s3 min-125±2°C for 30s3 min please refer to Fig-2 Z.Inductance change: Within ±10% 1.Temperature and time: 40s2°C for 30s3 min-125±2°C for 30s3 min-125±2°C for 30s3 min-125±2°C for 30s3 min please refer to Fig-2 Z.Inductance change: Within ±10% 1.Temperature and time: 40s2°C for 30s3 min-125±2°C for 30s3 min-125±2°C for 30s3 min please refer to Fig-2 Z.Inductance change: Within ±10% 1.Temperature and time: 40s2°C and atmospheric conditions for 1 hour, after which the measurement shall be made. 125°C 30±3min 30±3min J.The plack thrust is greater than 1.The electrode of the inductor is soldered to the PCB. 10N 1.The electrode of the inductor is soldered to the PCB. 10N 1.The first test is OK, and the force was applied until the peak value of the product peeling. The test speed was set in the rarge. 2.Inductance change: Within ±10% 1.Salt concentration: (hour, after which the measurement shall be made.
3. Duration: 1000 hours 3. Duration: 1000 hours 4. The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made. Alechanical /Ibration 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Frequency: 10HZ55HZ10HZ/Min Cycles 2.Amplitude: 1.5 mm 3.Directions: X, YZ 4.Time: 2 hours in each directions (total of 6 hours) Thermal Shock 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Temperature and time: 40±27 (br 30±3 min → 125±27) for 30±3 min 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. 1250: 30±3 min Ambient 1250: 30±3 min 4.The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made. 1250: 30±3 min Ambient 1250: 30±3 min 4.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(r1)s 10N 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(r1)s Salt Spray 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2 wours, testing inductance,		÷	
4. The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made. Mechanical (Ibration 1. No visible mechanical damage 2. Inductance change: Within 10% 1. Frequency: 10HZ~55HZ~10HZ/Min Cycles 3. Directions: XY, Z 4. Time 2: hours in each directions (total of 6 hours) Thermal Shock 1. No visible mechanical damage 1. Temperature and time: 40±2°C for 30±3 min-4125±2°C for 30±3 min please refer to Fig-2 2. Inductance change: Within ±10% 2. Transforming intervat: Max. 3 Min 3. Tested cycle: 100 3. The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made. 125°C 30±3 min 30±3 min Ambient 125°C 30±3 min 30±3 min Ambient 30±3 min 30±3 min 30±3 min 30±3 min 30±0 mi	damp-heat	2.Inductance change: Within ±10%	
Vechanical (bration) 1. No visible mechanical damage 2. Inductance change: Within ±10% 1. Frequency: 10HZ55HZ10HZ/Min Cycles 2. Amplitude: 1.5 mm 3.Directions: X,Y.Z 4. Time: 2 hours in each directions (total of 6 hours) Thermal Shock 1. No visible mechanical damage 2. Inductance change: Within ±10% 1. Temperature and time: -40±2°C for 30±3 min125±2°C for 30±3min please refer to Fig-2 2. Inductance change: Within ±10% 1. Temperature and time: -40±2°C for 30±3 min125±2°C for 30±3min please refer to Fig-2 2. Inductance change: Within ±10% 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. 125°C 30±3min Ambient 10N 30±3min Ambient 10N 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. IN force. 3. Keep time: 10(±1)s 3. Test tis CK, and the force was applied until the peak value of the product peeling. The test speed was set in the range of 3 ~ 8 mr/min. Salt Spray 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.pt value: 6 5 - 7 2 3. temperature: 35 ±			4. The specimen shall be stored at standard atmospheric conditions
/ibration 2.Inductance change: Within ±10% 2.Ampitude: 1.5 mm 3.Directions: X, Y,Z 4.Time: 2 hours in each directions (lotal of 6 hours) Thermal Shock 1.No visible mechanical damage 1.Temperature and time: -40±2°C for 30±3 min125±2°C for 30±3 min 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. 125°C 30±3 min 125°C 30±3 min 30±3 min Ambient			for 1 hour, after which the measurement shall be made.
3. Directions: X,Y,Z 4. Time: 2 hours in each directions (total of 6 hours) Phermal Shock 1. No visible mechanical damage 2. Inductance change: Within ±10% 1. Temperature and time: -40±2°C for 30±3 min125±2°C 7 of 30±3min plasse 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. 125°C 30±3min 30±3min Ambient		÷	
Phermal Shock 1. No visible mechanical damage 2. Inductance change: Within ±10% 1. Temperature and time: -40±2°C for 30±3 min125±2°C for 30±3 min please refer to Fig-2 2. Transforming interval: Max. 3 Min 3. Tested cycle: 1000 cycles 1. The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made. 125°C 30±3 min 40°C 30±3 min 3 Min make 30±3 min 30±3 min 40°C 30±3 min 30±3 min 40°C 30±3 min 30±3 min 40°C 30±3 min 30±3 min 40°C 40°C 400 50°C 40°C 40°C 40°C 40°C 40°C 40°C 40°C 4	IDIALION	2.Inductance change. Within ±10%	
2.Inductance change: Within ±10% 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. 125°C 30±3min Ambient Temperature 40°C 90°±3min Ambient Temperature 40°C 30°±3min Ambient Temperature 40°C 30°±3min Ambient Temperature 40°C 30°±3min Ambient Temperature 40°C 30°±3min Ambient The peak thrust is greater than 10N 10N Skeep time: 10(±1)s A The first test is OK, and the force was applied until the peak value of the product peeling. The test speed was set in the range of 3 ~ 8 mm/min. electrode mm/min. electrode the product peeling. The test speed was set in the range of 3 ~ 8 mm/min. stat Spray </td <td></td> <td></td> <td>4.Time: 2 hours in each directions (total of 6 hours)</td>			4.Time: 2 hours in each directions (total of 6 hours)
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. 1250 30±3min 1250 30±3min Ambient Temperature 400 301 min 301 min 301 min 301 min 4.00 301 min 4.00 301 min 301 min 4.00 301 min 4.00 301 min 4.00 301 min 301 min 4.00 3.01 min 1.17 me peak thrust is greater than 10N 1.17 me peak thrust is greater than 10N 10N torce: 3.100 torce: 3	Thermal Shock		
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. 125°C 30±3min Ambient Temperature 40°C 30±3min Temperature 40°C 30±3min Temperature 40°C 30±3min Temperature 40°C 30±3min Temperature 40°C 30±3min Temperature 40°C 30±3min Temperature 40°C 30±3min Temperature 40°C 30±3min Temperature 40°C 30±3min Temperature 40°C 30±3min Temperature 30±2min Temperature 30±2min Temper		2.Inductance change: Within ±10%	
4.The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made. 1250: 30±3rm 30±3rm Ambient 30±3rm 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 test is OK, and the force was applied until the peak value of the product peeling. The test speed was set in the range of 3 - 8 mm/min. Salt Spray 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Salt concentration: (5±1)% (mass percent) 2.pH value: 65 - 7.2 3.temperature: 35 ± 2 °C 4.tumidity: 85% 5.time: 24 hours 6.in normal temperature and humidity for 1 ~ 2 hours, testing inductance,			
Image: strength 1.The peak thrust is greater than 10N 1.The electrode of the inductor is soldered to the PCB, to Fig-2 Iterminal 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 1.The first test is OK, and the force was applied until the peak value of the product peeling. The test speed was set in the range of 3 ~ 8 mm/min. Salt Spray 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.pH value:6.5 - 7.2 3.temperature: 35 ± 2 °C 4.humidity: 85% 5.time: 24 hours			
Ambient Ambient Temperature 40°C 3 Min (max) Fig-2 Fig-2 Terminal 1.The peak thrust is greater than 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 test is OK, and the force was applied until the peak value of the product peeling. The test speed was set in the range of 3 ~ 8 mm/min. Balt Spray 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.PH value: 6.5 - 7.2 3.temperature: 35 ± 2 °C 3.time: 24 hours 6.in normal temperature and humidity for 1 ~ 2 hours, testing inductance,			for 1 hour, after which the measurement shall be made.
Terminal trength 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 test is OK, and the force was applied until the peak value of the product peeling. The test speed was set in the range of 3 ~ 8 mm/min. Salt Spray 1. No visible mechanical damage 2. Inductance change: Within ±10% 1. Salt concentration: (5 ± 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,			125°C 30±3min 30±3min
Terminal trength 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 test is OK, and the force was applied until the peak value of the product peeling. The test speed was set in the range of 3 ~ 8 mm/min. Salt Spray 1. No visible mechanical damage 2. Inductance change: Within ±10% 1. Salt concentration: (5 ± 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,			Ambient
Image: 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 test is OK, and the force was applied until the peak value of the product peeling. The test speed was set in the range of 3 ~ 8 mm/min. Salt Spray 1. No visible mechanical damage 2. Inductance change: Within ±10% 1. Salt concentration: (5 ± 1)% (mass percent) 2. PH value: 6.5 - 7.2 3. Itemperature: 35 ± 2 °C 4. humidity. 85% 5. Itme: 24 hours 6. in normal temperature and humidity for 1 ~ 2 hours, testing inductance,			
Fig-2 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 test is OK, and the force was applied until the peak value of the product peeling. The test speed was set in the range of 3 ~ 8 mm/min. Salt Spray 1. No visible mechanical damage 2. Inductance change: Within ±10% 1. Salt concentration: (5 ± 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,			40°C
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 test is OK, and the force was applied until the peak value of the product peeling. The test speed was set in the range of 3 ~ 8 mm/min. Salt Spray 1. No visible mechanical damage 2. Inductance change: Within ±10% 1. Salt concentration: (5 ± 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,			
10N 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 test is OK, and the force was applied until the peak value of the product peeling. The test speed was set in the range of 3 ~ 8 mm/min. Salt Spray 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 5.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 5.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 5.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 5.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 5.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 5.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 6.In normal temperature and humidity for 1 ~ 2 hours, testing inductance,			116-2
2.10N force. 3. Keep time: 10(±1)s 4.The first test is OK, and the force was applied until the peak value of the product peeling. The test speed was set in the range of 3 ~ 8 mm/min. add Salt Spray 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.Inductance change: Within ±10% 5.itime: 24 hours 6.in normal temperature and humidity for 1 ~ 2 hours, testing inductance,			
4.The first test is OK, and the force was applied until the peak value of the product peeling. The test speed was set in the range of 3 ~ 8 mm/min. electrode at Spray 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.Inductance change: Within ±10% 2.Inductance change: Within ±10% 5.time: 24 hours 5.time: 24 hours 6.in normal temperature and humidity for 1 ~ 2 hours, testing inductance,	strengtn	TUN	
the product peeling. The test speed was set in the range of 3 ~ 8 mm/min. electrode X direct Fiz-3 Salt Spray 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.Inductance change: Within ±10% Stime: 24 hours 5.time: 24 hours 6.in normal temperature and humidity for 1 ~ 2 hours, testing inductance,			
Salt Spray 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.Inductance change: Within ±10% 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,			
Salt Spray 1.No visible mechanical damage 2.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.Inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 2.inductance change: Within ±10% 1.Salt concentration: (5 ± 1)% (mass percent) 3.temperature: 35 ± 2 °C 3.temperature: 35 ± 2 °C 4.humidity: 85% 5.time: 24 hours 6.in normal temperature and humidity for 1 ~ 2 hours, testing inductance,			mm/min. electrode
Salt Spray 1.No visible mechanical damage 1.Salt concentration: (5 ± 1)% (mass percent) Fig3 Salt Spray 1.No visible mechanical damage 1.Salt concentration: (5 ± 1)% (mass percent) 2.PH value:6.5 - 7.2 3.temperature: 35 ± 2 °C 3.temperature: 35 ± 2 °C 4.humidity: 85% 5.time: 24 hours 6.in normal temperature and humidity for 1 ~ 2 hours, testing inductance,			
Salt Spray 1.No visible mechanical damage 1.Salt concentration: (5 ± 1)% (mass percent) Fig3 Salt Spray 1.No visible mechanical damage 1.Salt concentration: (5 ± 1)% (mass percent) 2.PH value:6.5 - 7.2 3.temperature: 35 ± 2 °C 3.temperature: 35 ± 2 °C 4.humidity: 85% 5.time: 24 hours 6.in normal temperature and humidity for 1 ~ 2 hours, testing inductance,			
Salt Spray 1.No visible mechanical damage 1.Salt concentration: (5 ± 1)% (mass percent) 2.Inductance change: Within ±10% 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,			
2.Inductance change: Within ±10% 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,			Fig-3
3.temperature: 35 ± 2 $^{\circ}$ C 4.humidity: 85% 5.time: 24 hours 6.in normal temperature and humidity for 1 \sim 2 hours, testing inductance,	Salt Spray		
5.time: 24 hours 6.in normal temperature and humidity for 1 \sim 2 hours, testing inductance,		2.inductance change. Within ±10%	3.temperature: 35 ± 2 °C
6.in normal temperature and humidity for 1 \sim 2 hours, testing inductance,			
the inductance value change can not be more than before test ± 10%.			6.in normal temperature and humidity for 1 \sim 2 hours, testing inductance,
			the inductance value change can not be more than before test ± 10%.
		·	·

(6)Packaging Information 6-1, carrier tape dimensions(mm) w 24 Ð æ Ø Ρ 16 Note: After the tape is woven, the outermost layer of the reel is 400mmMIN, and the innermost layer is 400mmMIN. 6-2, Taping Dimensions END Start Unreeling Direction 3 \oplus MARK ⊕ \oplus ⊕ æ MAR Ρ No component 400m/m No compo 400m/m Cover tape 6-3, Reel Dimensions(mm) THICKNESS(1) Λ 330 Tape width: 6-4, Packaging Quantity Chip / Reel Туре SPI12575N 500pcs/Reel (7)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

1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.

- 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
- 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.

	DWG.No.	ASDIQ-SPE-146(02)	PAGE 5/5			
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