	<spe< td=""><td>CIFICAT</td><td>ION></td><td></td></spe<>	CIFICAT	ION>	
- .				DIQ-SPE-122(02) c.05,2022
То :				
		ER'S PRODUCT NA	ME	
		ODUCT NAME: TPM-SERIES		
RECEIPT CONFIRI	MATION ITIONAL CONSENT		CONDITIONAL CO	DNSENT
	APPROVED		CHECKED	
ASDI SIGNATURE				
	APPROVED Xianglong Li	CHECKED Liang Wang	PREPARED Jiayin Cai	



REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Aug.05,2022	New release	Xianglong Li	Liang Wang	Jiayin Cai
01	Dec.05,2022	Add electrical characteristics	Xianglong Li	Liang Wang	Jiayin Cai
02	Mar.12,2023	Add STPM2520135A and STPM404018A	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℃.

*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
2)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-122(02)

ISSUE

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

1.INDEX

Listed item	Attachment&Tables	Page
1.Features	Please see (1)	3/8
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3.Dimensions	Please see (3)	3/8
4.Part Numbering	Please see (4)	3/8
5.Electrical Specifications	Please see (5)	4/8
6.Material List	Please see (6)	4/7
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8.Reliability Tests	Please see (8)	5/8
9.Soldering and Mounting	Please see (9)	7/8
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2.Manufacturing Location

China

	DWG.NO.	ASDIQ-SPE-122(02)	PAGE 2/8
Xiamen ASDI E	ectronics	Co.,Ltd.	

(1)Features

- 1.Soft saturation.
- 2. High current, low DCR, high efficiency.
- 3. Very low acoustic noise and very low leakage flux noise.
- 4. High reliability.
- 5.100% Lead (Pb)-Free and RoHS compliant.
- 6. Operating temperature -55~+125°C (Including self-temperature rise)



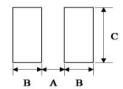


(2)Applications

Note PC power system, incl. IMVP-6 DC/DC converter.

(3)Dimensions





Series	L(mm)	W(mm)	T(mm)	a(mm)	Α	В	С
STPM160810A	1.6±0.2	0.8±0.2	1.0Max	0.4±0.2	0.6~0.8	0.6~0.8	0.6~0.8
STPM201208A	2.0±0.2	1.2±0.2	0.8Max	0.6±0.2	0.8~1.2	0.8~1.2	1.2~2.0
STPM201210A	2.0±0.2	1.2±0.2	1.0Max	0.6±0.2	0.8~1.2	0.8~1.2	1.2~2.0
STPM201610A	2.0±0.2	1.6±0.2	1.0Max	0.6±0.2	0.8~1.2	0.8~1.2	1.2~2.0
STPM252010A	2.5±0.2	2.0±0.2	1.0Max	0.8±0.2	1.2~1.6	0.8~1.2	1.8~2.4
STPM2520135A	2.5 ±0.2	2.0±0.2	1.35Max	0.8±0.2	1.2~1.6	0.8~1.2	1.8~2.4
STPM404018A	4.0 ±0.2	4.0±0.2	1.8Max	1.0±0.2	2.3~2.7	1.0~1.4	3.8~4.2
STPM404024A	4.0 ±0.2	4.0±0.2	2.4Max	1.0±0.2	2.3~2.7	1.0~1.4	3.8~4.2

Note:

- 1. Inductance tolerance code (M=±20%).
- 2. Rated current: Isat or Irms, whichever is smaller.
- 3. Isat: Max.Value, DC current at which the inductance drops less than 30% from its value without current; Typ. Value, DC current at which the inductance drops 30% from its value without current.
- 4. Irms: DC current that will cause the temperature rise (ΔT) from 22°C ambient.
- 5. For Max. Value, $\Delta T < 40^{\circ}C$; for Typ. Value, ΔT is approximate $40^{\circ}C$.

(4)Part Numbering

STPM	201610	Α	-	R47	M
Α	В	С		D	Е

A: Series

B: Dimension

C: Type

D: Inductance R47=0.47µH E: Inductance Tolerance M=±20%

(5)Electrical Specification

ASDI Part Number	Inductance	DCR(mΩ) Typ.	DCR(mΩ) Max.	Isat (A) Typ.	Isat (A) Max.	I rms (A) Typ.	I rms (A) Max.	Test Frequency (MHz)	SRF (MHz)	Thickness (mm)
STPM160810A-R47M	0.47	41.0	46	3.5	3.1	3.1	2.8	1	65	1.0Max
STPM160810A-1R0M	1.00	100.0	110	2.3	2.1	2.0	1.8	1	57	1.0Max
STPM160810A-2R2M	2.20	295.0	320	1.4	1.2	1.1	1.0	1	38	1.0Max
STPM201208A-1R0M	1.00	63.0	70	3.6	3.2	3.0	2.7	1	41	0.8Max
STPM201208A-2R2M	2.20	145.0	160	2.0	1.8	1.6	1.3	1	29	0.8Max
STPM201210A-R47M	0.47	24.0	27	5.1	4.6	4.5	4.1	1	63	1.0Max
STPM201210A-1R5M	1.50	110.0	122	2.8	2.5	2.1	1.8	1	32	1.0Max
STPM201610A-R24M	0.24	12.5	15	7.8	7.0	5.5	5.0	1	84	1.0Max
STPM201610A-R33M	0.33	16.0	19	6.7	6.0	5.2	4.8	1	80	1.0Max
STPM201610A-R47M	0.47	19.0	22	6.2	5.6	4.8	4.4	1	57	1.0Max
STPM201610A-1R0M	1.00	38.0	42	3.9	3.5	3.4	3.2	1	44	1.0Max
STPM201610A-2R2M	2.20	102.0	115	2.7	2.4	2.3	2.0	1	33	1.0Max
STPM252010A-R47M	0.47	18.0	21	6.7	6.0	5.5	5.0	1	53	1.0Max
STPM252010A-R68M	0.68	23.0	27	5.4	4.8	4.8	4.3	1	42	1.0Max
STPM252010A-1R0M	1.00	31.0	35	5.0	4.5	4.5	4.0	1	36	1.0Max
STPM252010A-1R5M	1.50	53.0	61	3.6	3.4	3.6	3.2	1	30	1.0Max
STPM252010A-2R2M	2.20	63.0	70	3.3	3.0	3.0	2.7	1	25	1.0Max
STPM252010A-4R7M	4.70	155.0	170	2.4	2.1	1.8	1.5	1	20	1.0Max
STPM252010A-100M	10.00	365.0	400	1.4	1.2	1.2	1.1	1	13	1.0Max
STPM2520135A-R33M	0.33	9.0	11	10.0	9.0	6.6	6.0	1	76	1.35Max
STPM2520135A-R47M	0.47	12	15	7	6.3	5.6	5	1	54	1.35Max
STPM404018A-1R0M	1.00	15.0	17	10.0	9.0	7.0	6.5	1	32	1.8Max
STPM404018A-2R2M	2.20	22.0	25	7.2	6.5	6.0	5.0	1	25	1.8Max
SPTM404018A-3R3M	3.30	38.0	42	6.0	5.4	4.8	4.3	1	17	1.8Max
SPTM404018A-6R8M	6.80	62.0	70	4.0	3.5	3.0	2.7	1	12	1.8Max
SPTM404024A-R47M	0.47	4.2	5	17.0	15.0	15.6	14.0	1	40	2.4Max

1.M=±20%

- 2.Rated current: Saturation current or temperature rise current, choose a smaller current
 3.Saturation current: The maximum current at which the inductance decreases by less than 30%, the standard value, the current at which the inductance decreases by 30%
- 4.Temperature rise current: The current applied when the surface temperature of the inductor rises by 40 $^{\circ}$ C. The maximum value, Δ T < 40 $^{\circ}$ C, and the standard value, Δ T is close to 40 $^{\circ}$ C

(6)Material List



No.	Description	Specification
1	Metal Alloy Body	Metal Alloy Powder
2	Inner Wire	Enameled Copper Wire
3	Pull-out Electrode	Cu
4	Terminal	Electro-Plating:Cu,Ni,Sn

DWG.I	No.	ASDIQ-SPE-122(02)	PAGE 4/8
			•

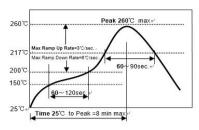
Direct current resistance (DCR)	etr <u>ical Tests</u>		
ohm ammeter ADEX-1152D a. Measuring instrument: Precision impedance analyzer IVK 6500B. b. Measure signal voltage: 1V. c. Refer to the electrical characteristics requirements for the measurement frequency a. Set the initial current to 0mA b. Measure the initial surface temperature of the inductor c. Gradually increase the voltage and measure the temperature of the inductor surface under the corresponding current d. Temperature rise current definition (Irms): current applied when the surface temperature of the inductor surface under the corresponding current d. Temperature rise current definition (Irms): current applied when the surface temperature of the inductor rises by 40 € a. Measuring instrument: Precision impedance analyzer IVK 6500B. b. Measurement frequency: IMHz. c. Definition of Saturation current (Isat): current when the inductance decreases by 30% s. Measuring instrument: Precision impedance analyzer IVK 6500B. b. Measurement frequency: IMHz. c. Definition of Saturation current (Isat): current when the inductance decreases by 30% s. Measuring instrument: Precision impedance analyzer IVK 6500B. b. Measurement frequency: IMHz. c. Definition of Saturation current (Isat): current when the inductance decreases by 30% s. Measuring instrument: Precision impedance analyzer IVK 6500B. b. Measurement frequency: IMHz. c. Definition of Saturation current (Isat): current when the inductance decreases by 30% s. Measuring instrument: Precision impedance analyzer IVK 6500B. b. Measurement frequency: IMHz. c. Definition of Saturation current (Isat): current when the inductance decreases by 30% s. Measuring instrument: Precision impedance analyzer IVK 6500B. b. Measurement frequency: IMHz. c. Definition of Saturation current (Isat): current when the inductance decreases by 30% s. Measuring instrument: Precision impedance analyzer IVK 6500B. b. Measurement frequency: IMHz. c. Definition of Saturation current (Isat): current when the inductor analyzer IVK 6500B. Two reflow pretreatment, 1608 series sh; 2012	Test Item	Performance	Test Condition
Impedance analyzer WK 6500B, b. Measure signal voltage :1V. c. Refer to the electrical characteristics requirements for the measurement frequency a. Set the initial current to 0mA b. Measure the initial surface temperature of the inductor c. Gradually increase the voltage and measure the temperature of the inductor surface under the corresponding current d. Temperature in the inductor surface under the corresponding current d. Temperature of the inductor surface under the corresponding current d. Temperature of the inductor surface under the corresponding current d. Temperature of the inductor surface under the corresponding current d. Temperature of the inductor rises by 40 ℃ Saturation current (Isat) L≦30% typical. Saturation current (Isat) L≦30% typical. Saturation current (Isat) L≦30% typical. A. Measuring instrument: Precision impedance analyzer WK 6500B. b. Measure signal voltage :1V. Biliability Tests No apparent mechanical damage Strength of terminal No obvious damage such as dark crack/electrode crack/missing Angle Ls, △DCR within ±10% OK No obvious damage such as dark crack/electrode crack/missing Angle Ls, △DCR within ±10% OK No obvious damage such as dark crack/electrode crack/missing Angle Ls, △DCR within ±10% OK No obvious damage such as dark crack/electrode crack/missing Angle Ls, △DCR within ±10% OK No obvious damage such as dark crack/electrode crack/missing Angle Ls, △DCR within ±10% OK DWG.No. ASDIQ-SPE-122(02)			
D. Measure the initial surface temperature of the inductor c. Gradually increase the voltage and measure the temperature of the inductor surface under the corresponding current d. Temperature rise current definition (Irms): current applied when the surface temperature of the inductor rises by 40 ℃ Saturation current (Isat) AL ≤ 30% typical. DA ≤ 30% typical. Saturation current (Isat): Saturation current (Isat): Chemistry of the inductor rises by 40 ℃ a. Measuring instrument: Precision impedance analyzer WK 6500B. b. Measurement frequency: 1MHz. c. Definition of Saturation current (Isat): current when the inductance decreases by 30% SRF Reference electrical characterist in the inductance decreases by 30% Strength of terminal No apparent mechanical damage Chip Fig. 8.14 No apparent mechanical damage Two reflow pretreatment, 1608 series 5N; 2012, 2016, 2520 and 4040 series are 10N; The maximum thrust value is reached within 5s, and the maintenance time is 10±1s. Test substrate: glass epoxy resin substrate Test substrate: glass epoxy resin substrate Thickness: 0.8mm Bend 2mm, hold time 30s The frequency is 10Hz-2kHz-10Hz, one cycle is 20min, the amplitude is 1.52mm, the acceleration is 15G, and the X and Y axis directions are tested for 4h. DWG.No. ASDIQ-SPE-122(02)	L		impedance analyzer WK 6500B. b. Measure signal voltage :1V. c. Refer to the electrical characteristics requirements for the measurement
Saturation current (Isat) △L ≦ 30% typical. SRF Reference electrical characterist by 30% a. Measuring instrument: Precision impedance analyzer WK 6500B. b. Measure signal voltage :1V. SRF Reference electrical characterist by 30% a. Measuring instrument: Precision impedance analyzer WK 6500B. b. Measure signal voltage :1V. No apparent mechanical damage Two reflow pretreatment, 1608 series 5N; 2012, 2016, 2520 and 4040 series are 10N; The maximum thrust value is reached within 5s, and the maintenance time is 10±1s. No obvious damage such as dark crack/electrode crack/missing Angle △Ls, △DCR within ±10% OK Vibration No obvious damage such as dark crack/electrode crack/missing Angle △Ls, △DCR within ±10% OK DWG.No. ASDIQ-SPE-122(02)	Temperature rise (Irms)	ΔT≦40°C.	b. Measure the initial surface temperature of the inductor c. Gradually increase the voltage and measure the temperature of the inductor surface under the corresponding current d. Temperature rise current definition (Irms): current applied when the surface temperature of the inductor rises by 40
SRF Reference electrical characterist impedance analyzer WK 6500B. b. Measure signal voltage :1V. Strength of terminal	Saturation current (Isat)	△L≦30% typical.	impedance analyzer WK 6500B. b. Measurement frequency: 1MHz. c. Definition of Saturation current (Isat): current when the inductance decreases
Strength of terminal Strength of terminal Two reflow pretreatment, 1608 series	SRF	Reference electrical characterist	impedance analyzer WK 6500B.
Strength of terminal Strength of terminal Two reflow pretreatment, 1608 series 5N; 2012, 2016, 2520 and 4040 series are 10N; The maximum thrust value is reached within 5s, and the maintenance time is 10±1s. No obvious damage such as dark crack/electrode crack/missing Angle Test substrate: glass epoxy resin substrate Thickness:0.8mm	ability Tests		l
Strength of terminal Chip Fig. 8.1-1 No obvious damage such as dark crack/electrode crack/missing Angle Vibration No obvious damage such as dark crack/electrode crack/missing Angle Vibration Chip Fig. 8.1-1 Ro obvious damage such as dark crack/electrode crack/missing Angle Ls, \(\triangle DCR \) within ±10% OK No obvious damage such as dark crack/electrode crack/missing Angle Ls, \(\triangle DCR \) within ±10% OK No obvious damage such as dark crack/electrode crack/missing Angle Ls, \(\triangle DCR \) within ±10% OK DWG.No. ASDIQ-SPE-122(02)		1	Two reflow pretreatment, 1608 series
Bending strength Description Bending strength Description Substrate Thickness :0.8mm Bend 2mm, hold time 30s The frequency is 10Hz~2kHz~10Hz, one cycle is 20min, the amplitude is 1.52mm, the acceleration is 15G, and the X and Y axis directions are tested for 4h. Dwg.No. Dwg.No. ASDIQ-SPE-122(02)	Strength of terminal	Mounting Pad Glass Epoxy Board	are 10N; The maximum thrust value is reached within 5s, and the maintenance
Vibration No obvious damage such as dark crack/electrode crack/missing Angle △Ls, △DCR within ±10% OK DWG.No. ASDIQ-SPE-122(02) Bend 2mm, nold time 30s	Bending strength	dark crack/electrode	substrate
No obvious damage such as dark crack/electrode crack/missing Angle △Ls, △DCR within ±10% OK The frequency is 10Hz~2kHz~10Hz, one cycle is 20min, the amplitude is 1.52mm, the acceleration is 15G, and the X and Y axis directions are tested for 4h. DWG.No. ASDIQ-SPE-122(02)		\triangle Ls, \triangle DCR within ±10% OK	Bend 2mm, hold time 30s
	Vibration	dark crack/electrode crack/missing Angle	The frequency is 10Hz~2kHz~10Hz, one cycle is 20min, the amplitude is 1.52mm, the acceleration is 15G, and the X and Y
Yiaman ASDI Flootronics Co. Ltd			DWG.No. ASDIQ-SPE-122(02)
		Xiamen ΔSDI Electronics	Co. Ltd.

Test Item	Performance	Test Condition
Drop	No obvious damage such as dark crack/electrode crack/missing Angle △Ls, △DCR within ±10% OK	Height: 1 m; Number of drops: 6 times per surface
Soldering	Upper tin area ≥95% △DCR is OK within ±10%	Steam aging treatment 93℃, 100%RH, 2h Leaching temperature 245±5℃, leaching time 3±1s
Heat-resisting	Upper tin area ≥95% △DCR is OK within ±10%	Tin immersion temperature :260±5℃ Tin immersion time :10±0.5s
Reflow soldering	There is no obvious damage such as dark crack, rust and overflow in reflow welding △DCR is OK within ±10%	Max. 260 °C/10s, reflow welding for 3 times 260 °C Peak 260 °C max. Max Ramp Up Rate-3 °C/sec. Max Ramp Down Rate-6 °C/sec. 60 - 90sec. Time 25 °C to Peak =8 min max
Thermal shock	There is no obvious damage such as dark crack, rust and overflow in reflow welding △DCR is OK within ±10%	-40 ±2°C (30 min) → 125±2°C (30 min), 100Cycle
Long-term low temperature	No obvious damage such as dark crack/rust/glue overflow △Ls, △DCR within ±10% OK	- 55±2℃ for 1000(+ 4/-0)h
Long-term high temperature	No obvious damage such as dark crack/rust/glue overflow △Ls, △DCR within ±10% OK	125±2℃ for 1000(+4/-0) h
Long-term moisture resistance	No obvious damage such as dark crack/rust/glue overflow △Ls, △DCR within ±10% OK	60±2℃/95%±5%RH, test 1000(+4/-0)h
Long-term durability	No obvious damage such as dark crack/rust/glue overflow △Ls, △DCR within ±10% OK	85±2℃/ rated current /1000(+4/-0)h

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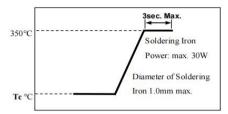
(9)Soldering and Mounting

9-1,Reflow Profile



Preheat condition	150 ~200°C			
Freneat Condition	/60~120sec			
Allowed time above	217°C: 60~90sec			
Max temp	260°C			
Max time at Max temp	10sec			
Solder paste	Sn/3.0Ag/0.5Cu			
Allowed Reflow time	2x Max			

9-1, Reflow Profile

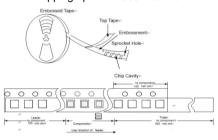


Iron soldering power	Max.30W
Pre-heating	150 °C / 60sec
Soldering Tip temperature	350°CMax
Soldering time	3sec Max
Solder paste	Sn/3.0Ag/0.5Cu
Max	1 times for iron

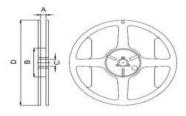
(10)Packaging Information

10-1,Reflow Profile

- a. The stripping force of the cap is 10g.f~70g.f b. The stripping speed is 300±10mm/min

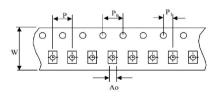


10-2,Reel Dimension



Type	Α	В	С	D
160810	8.4+1.5/-0	58±2.0	13.5±0.2	178±2.0
201208	8.4+1.5/-0	58±2.0	13.5±0.2	178±2.0
201210	8.4+1.5/-0	58±2.0	13.5±0.2	178±2.0
201610	8.4+1.5/-0	58±2.0	13.5±0.2	178±2.0
252010	8.4+1.5/-0	58±2.0	13.5±0.2	178±2.0
2520135	8.4+1.5/-0	58±2.0	13.5±0.2	178±2.0
404018	12+2.0/-0	100±2.0	13.5±0.2	330±2.0
404024	12+2.0/-0	100±2.0	13.5±0.2	330±2.0

10-3, Tape Dimension





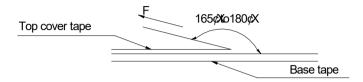
Type	Ao	Во	Р	Po	P1	Ko max	t max	W
160810	1. 10±0. 1	1.90±0. 1	4.0±0. 1	4.0±0. 1	2.0±0.05	1.3	0.3	8.0±0. 1
201208	1.50±0. 1	2.30±0. 1	4.0±0. 1	4.0±0. 1	2.0±0.05	1.1	0.3	8.0±0. 1
201210	1.50±0. 1	2.30±0. 1	4.0±0. 1	4.0±0. 1	2.0±0.05	1.3	0.3	8.0±0. 1
201610	1.90±0. 1	2.30±0. 1	4.0±0. 1	4.0±0. 1	2.0±0.05	1.3	0.3	8.0±0. 1
252010	2.30±0. 1	2.80±0.1	4.0±0. 1	4.0±0. 1	2.0±0.05	1.3	0.3	8.0±0. 1
2520135	2.30±0. 1	2.80±0.1	4.0±0. 1	4.0±0. 1	2.0±0.05	1.6	0.3	8.0±0. 1
404018	4.30±0. 1	4.30±0.1	8.0±0. 1	8.0±0. 1	4.0±0. 1	2.1	0.3	12.0±0.3
404024	4.30±0. 1	4.30±0. 1	8.0±0. 1	4.0±0. 1	2.0±0.05	2.7	0.3	12.0±0.3

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10-4, Packaging Quantity

STPM	160810	201208	201210	201610	252010	2520135	404018	404024
Thickness	1.0Max	0.8Max	1.0Max	1.0Max	1.0Max	1.35Max	1.8Max	2.4Max
Quantity	4K	4K	4K	4K	3K	2.5K	3K	2K

10-5, Tearing Off Force



The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI/EIA-481-C-2003 of 4.11 standard).

(1)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.

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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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