	<spe< td=""><td>CIFICAT</td><td>TON&gt;</td><td></td></spe<>	CIFICAT	TON>	
				SDIQ-SPE-182(00) pt.13,2022
То :				
	CUSTOME	R'S PRODUCT NAM	1E	
	ASDI P	RODUCT NAME:		
	ASCM	13216-2-SERIES		
	•		•	
RECEIPT CONFIR		1		
UNCOND	DITIONAL CONSENT		CONDITIONAL CO	DNSENT
	APPROVED		CHECKED	
ASDI SIGNATURE				
	APPROVED Xianglong Li	CHECKED Liang Wang	PREPARED Jiayin Cai	
			-	



Xiamen ASDI Electronics Co.,Ltd.

REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Oct.13,2022	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.

CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
	ASCM3216-2-SERIES	

1.INDEX

Listed item	Attachment&Tables	Page
Features	Please see (1)	3/10
Applications	Please see (2)	3/10
Product Identification	Please see (3)	3/10
Dimensions	Please see (4)	3/10
Structure and Components	Please see (5)	4/10
Schematic Diagram	Please see (6)	4/10
MEASURING CIRCUITS 2LINE	Please see (7)	4/10
Electrical Characteristics	Please see (8)	5/10
Typical impedance vs. frequency	Please see (9)	5/10
Reliability Test	Please see (10)	7/10
Packaging Information	Please see (11)	9/10

2.Manufacturing Location

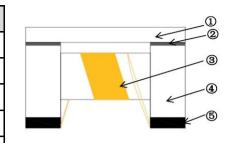
China

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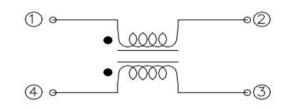
<ul> <li>(1) Features         <ul> <li>High common mode impedance at high free performance.</li> <li>ASCM3216 series realizes small size and 1</li> <li>100% Lead (Pb) &amp; Halogen-Free and Ro</li> </ul> </li> <li>(2) Applications         <ul> <li>Power switch and servers.</li> <li>Telecommunication applications.</li> <li>Countering common mode noise affecting</li> </ul> </li> </ul>	•USB communication. •Panel link for LCD panels.
(3) Product Identification	
ASCM 3216 -2 -500 ① ② ③ ④	T         F           ⑤         ⑥
<ol> <li>ASCM Series name</li> <li>3216 Dimension</li> <li>32 2 lines</li> <li>4500 Common Mode Impedance (Ω)</li> <li>T Packing (Tape &amp; Reel)</li> <li>F HSF Products (Hazardous Sub</li> </ol>	
(4) Dimensions	
Unit:mm	Recommend Land Pattern
A B C D	E
3.20±0.20 1.60±0.20 1.80±0.20 0.6TYP	0.6TYP
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#### (5) Structure and Components

N	о.	Part Name	Material Name
(	1)	Lid	Ni-Zn Ferrite
(	2)	Ероху	Epoxy resin
(;	3)	Wire	Enameled copper wire
(	4)	Core	Ni-Zn Ferrite
(	5)	Electrode structure	Ag+Ni+Sn plating

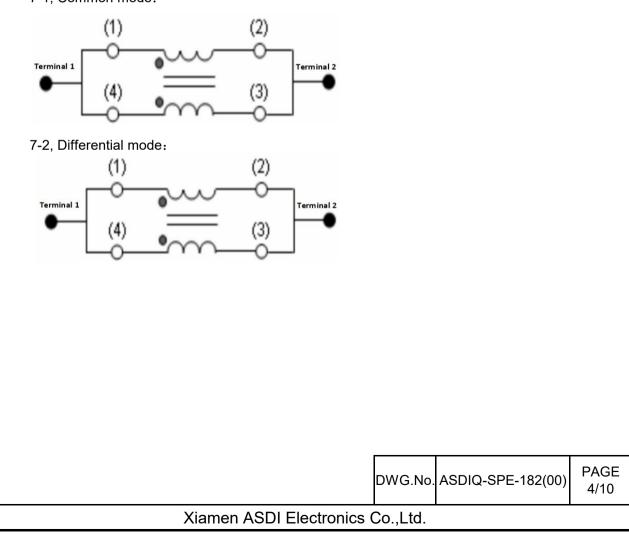


#### (6) Schematic Diagram



# (7) MEASURING CIRCUITS 2LINE

7-1, Common mode:



(8) Electrical Characteristics

	Z (共模阻抗) @100MHZ	DCR	IR	Rated Voltage (Vdc)	Irms
Part No.	Ω	mΩ	MΩ	V	mA
	±25%	MAX	MIN	/	MAX
ASCM3216-2-500TF	50	250	10	50	400
ASCM3216-2-900TF	90	300	10	50	370
ASCM3216-2-161TF	160	400	10	50	340
ASCM3216-2-261TF	260	500	10	50	310
ASCM3216-2-601TF	600	800	10	50	260
ASCM3216-2-102TF	1000	1000	10	50	230
ASCM3216-2-222TF	2200	1200	10	50	200

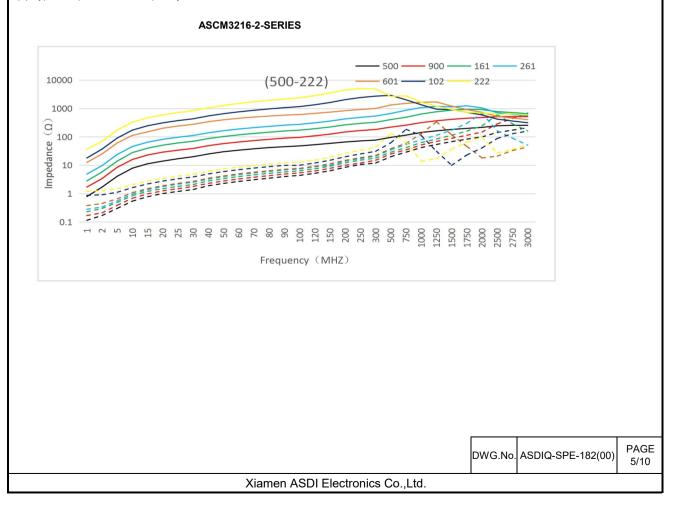
Notes

1. All test data is referenced to 25 °C ambient.

2. Operating temperature range -40 °C to + 125°C (Including self - temperature rise) .

3. Irms (A):DC current (A) that will cause an approximate  $\Delta T$  of 40 °C(reference ambient temperature is 25 °C). 4. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions. all affect the part temperature. Part temperature should be verified in the end application.

#### (9) Typical impedance vs. frequency



Test item	Performance	Test details
Operating temperature	1. No visible mechanical damage 2. Impedance change: Within±20% 3. Insulation resistance: 10MΩ min	1. Reflow 2 times 2. temperature: 155± 2 ℃
Resistance to Soldering Heat	1. No visible mechanical damage 2. Impedance change: Within±20%	<ol> <li>Solder on PCB to Reflow test Peak Temp. 260±5°C 5~10 secs ,Cycles :2 timesRe-flowing Profile: Please refer to Fig. 2. Test board thickness: 1.5mm</li> <li>Test board material: glass epoxy resin</li> <li>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.</li> </ol>
		260°C 217°C Max Ramp Up, Rate=3°C/sec 150°C 25°C Time 25°C to Peak =8 min max
High Temperature	<ol> <li>No visible mechanical damage</li> <li>Impedance change: Within±20%</li> <li>Insulation resistance: 10MΩ min</li> </ol>	<ol> <li>Temperature: 125±2°C</li> <li>Duration: 1000 hours The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made.</li> </ol>
Steady damp-heat	<ol> <li>No visible mechanical damage</li> <li>Impedance change: Within±20%</li> <li>Insulation resistance: 10MΩ min</li> </ol>	<ol> <li>Temperature:85 ℃</li> <li>Humidity: 85% RH</li> <li>Duration:1000 hours</li> <li>The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made.</li> </ol>
Mechanical Vibration	1. No visible mechanical damage 2. Impedance change: Within±20%	<ol> <li>Frequency: 10HZ~55HZ~10HZ/Min Cycles</li> <li>Amplitude: 1.5 mm</li> <li>Directions: X,Y,Z 4. Time: 2 hours in each directions (total of 6 hours)</li> </ol>

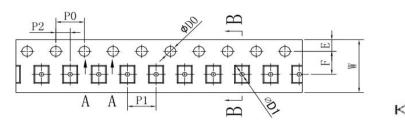
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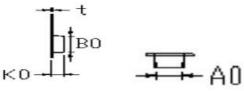
Thermal Shock	Performance	Test details
	<ol> <li>No visible mechanical damage</li> <li>Impedance change: Within±20%</li> <li>Insulation resistance: 10MΩ min</li> </ol>	1. Temperature and time: -40 °C for 30±3 min→125 °C for 30±3min, please refer to Fig-2 2. Transforming interval: Max. 3 Min 3. Tested cycle: 1000 cycles 4. The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made. 125°C 30±3min 30±3min Ambient 30±3min Temperature 40°C 30±3min 3 Min (max.)
Galt Spray	1. No visible mechanical damage 2. Impedance change: Within±20%	<ol> <li>Salt concentration: (5 ± 1)% (mass percent)</li> <li>pH value:6.5 - 7.2</li> <li>temperature: 35 ± 2 °C</li> <li>humidity: 85%</li> <li>time: 24 hours</li> <li>in normal temperature and humidity for 1 ~ 2 hours, testing inductance, the inductance value change can not be more than before test ± 10%.</li> </ol>
Terminal strength	No visible mechanical damage	<ol> <li>The electrode of the inductor is soldered to the PCB, to Fig-3 Then apply a force in the direction of the arrow.</li> <li>SN force.</li> <li>Keep time: 10(±1)s 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.</li> </ol> Pressure           Substrate         Product           Test board fixture

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# (11)Packaging Information

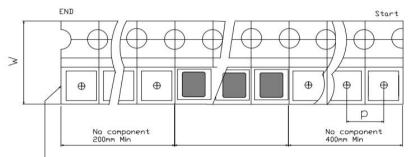
11-1, Tape Packaging Dimensions





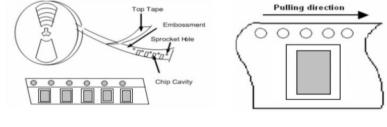
(Unit: mm)	)											
Туре	W	P1	A0	B0	K0	t	Е	F	P2	D0	D1	P0
ASCM3216	8.00 ±0.10	4.00 ±0.10	1.90 ±0.10	3.60 ±0.10	1.95 ±0.10	0.25 ±0.05	1.75 ±0.10	3.50 ±0.10	2.00 ±0.10	1.55 ±0.05	1.00 ±0.05	4.00 ±0.10

11-2, Leader and blank portion



\_ Cover tape

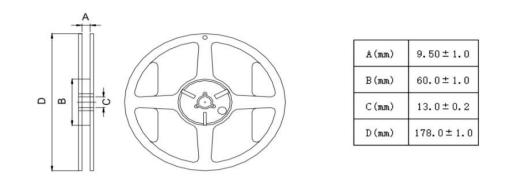
#### 11-3, Taping Drawings



Sprokert Hele       Crip Cavity         Crip Cavity       Crip Cavity			
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## 11-4,Reel Dimensions(Unit: mm)



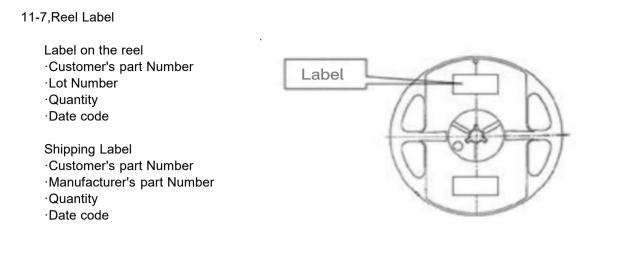
### 11-5, Packaging Quantity

Туре	Standard Quantity					
	Reel	Inner box	Carton box			
ASCM3216	2000 pcs / reel	5Reel / box (10000 pcs)	10 Middle boxes, (100000 pcs)			

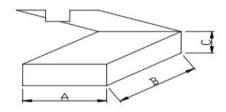
### 11-6,Peel force of top cover tape

The peel speed shall be about 300mm/minute. The peel force of top cover tape shall be between 10 to 100gf.

165° to 180° F Top cover tape // Base tape PAGE DWG.No. ASDIQ-SPE-182(00) 9/10 Xiamen ASDI Electronics Co.,Ltd.

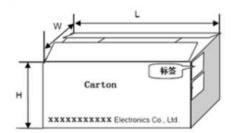






Packaging Type	A (mm)	B (mm)	C (mm)
Inner box	18 <mark>8</mark>	<mark>1</mark> 95	67

11-9,Carton



Packaging Type	L (mm)	W (mm)	H (mm)
Carton	390	350	215

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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

# >>ASDI