

QS9000 & ISO14001 & TS16949 CHILISIN ELECTRONICS CORP.

Lead-Free & RoHs Compliance!!

SPECIFICATION FOR APPROVAL

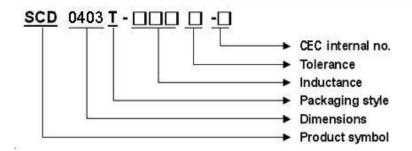
CUSTOMER:	立创				
CUSTOMER P/N:	C2914000				
OUR DWG No:				_	
QUANTITY:	0	Pcs.	DATE:	2021/11/5	
ITEM:		SCD0403T-1R4T-N			
TI ZIM ·					
	S DI	ECIFIC	ATION		
	_	CEPTE	_		
COMPONENT					
ENGINEER	<u> </u>				
ELECTRICAL					
ENGINEER MECHANICAL					
ENGINEER					
APPROVED					
REJECTED					
奇力新電子股份有限公司 CHILISIN ELECTRONICS CORP. NO.29,LANE 301,TEHHSIN ROAD,HUKOU, HSINCHU,TAIWAN,303, REPUBLIC OF CHINA TEL: (03) 599-2646 FAX: (03) 599-9176 E-mail: Sales@chilisin.com.tw http://www.chilisin.com.tw 台北營業處 TAIPEI OFFICE 3F,NO.233-1,PAO-CHIAO ROAD, HSIN TIEN,TAIPEI,TAIWAN, R.O.C. TEL: (02)29112073 FAX: (02)29147698 E-mail: Sales@chilisin.com.tw			IANGWEI ADMII GXI TOWN, DON NA :00286769-773 :00286769-773 ail:cect@chilisii 力新電子(蘇州 LISIN ELECTRO	JISIN ELECTRONICS LTD. NISTRATION AREA, IGGUANG,GUANGDONG, 0251~3 0232 n.com.tw ()有限公司 INICS(SUZHOU)CO.,LTD ad, Suzhou New District,	
DRAWN BY	CHECKED BY APPROVED BY 選章僚 Fric				



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SCD0403T Series Specification

- 1 Scope: This specification applies to SMD POWER CHOKE
- 2 Part Numbering: Product Identification

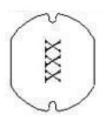


3 Rating:

Operating Temperature: $-40\,\mathrm{°C} \sim 85\,\mathrm{°C}$

Storage Temperature: Under $2\ 5\ ^{\circ}\mathrm{C}$,Humidity < 75% RH

4 Marking:



EX: SCD0403T-1R4T-N

Marking: 1R4

5 Standard Testing Condition

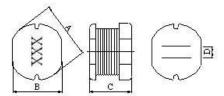
Unless otherwise specified		In case of doubt	
Temperature	Ordinary Temperature(15 to 35℃)	20±2℃	
Humidity	Ordinary Humidity(25 to 85% RH)	60 to 70 % RH	



CHILISIN ELECTRONICS CORP.

SCD0403T Series Specification

6 Configuration and Dimensions:



TYPE	SCD0403
Α	4.5±0.3
В	4.0±0.3
С	3.2±0.3
D	1.2

7 ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	IDC (A)Max.	Tolerance (±%)
SCD0403T-1R4T-N	1.4	100KHZ 0.25V	0.03	3.6	30

NOTE:
☐-tolerance K=±10% / =±15% / M=±20%

^{1.}Operating temperature range $-~4~0~\% \sim 8~5~\%$

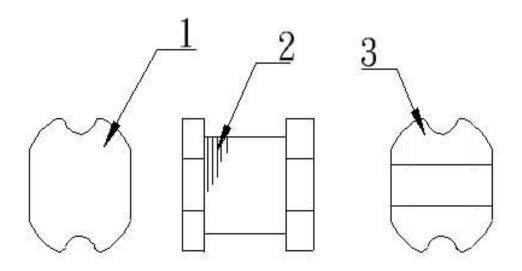
^{2.} This indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition of D.C current when at $\triangle t=40^{\circ}C$ whichever is lower.



SCD0403T Series Specification

8 SCD0403T Series

8.1 Construction:



8.2 Material List:

ITEM	PART	DESCRIPTION	TEMP.	SUPPLIES	UL NO.
i	CORE	FERRITE		CHILISIN	
2	WIRE	DDNYU PD800N UEY	130°C	PACIFIC WALSIN LIHWA TOTOKU	E84081(S) E70566(S) E79029(S)
3	TERMINAL	SILVER Sn\Pb		NAMICS	



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SCD0403T Series Specification

Peliability Of Ferrite Wire Wound Power Inductor 1-1.Mechanical Performance

No	Item	Specification	Test Method
1-1-1	Vibration	Appearance: No damage	Test device shall be soldered on the substrate
		Inductance:within±10% of	Oscillation Frequency: 10 to 55 to 10Hz for 1min
		initial value	Amplitude: 1.5mm
			Time: 2hrs for each axis (X, Y & Z), total 6hrs
4.4.0	Desistantes to Coldenin a Uset	Annarana Na damara	Dra hasting 450°C April
1-1-2	Resistance to Soldering Heat	Apperance: No damage	Pre-heating: 150℃, 1min
			Solder Composition: Sn/Ag3.0/Cu0.5
			Solder Temperature: 260±5°C
			Immersion Time: 10±1sec
1-1-3	Solder ability	The electrodes shall be at	Pre-heating: 150℃, 1min
		least 90% covered with new	Solder Composition: Sn/Ag3.0/Cu0.5
		solder coating	Solder Temperature: 245±5°C
			Immersion Time: 4±1sec

1-2. Environmental Performance

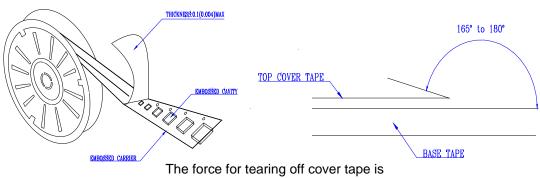
No	Item	Specification	Test Method		
1-2-1	Temperature Shock	Appearance: No damage	10 cycles (Air to Air) 1 cycles shall consist of:		f:
		Inductance:within±10% of	30 minutes exposure to –55 $^{\circ}\mathrm{C}$		
		initial value	30 minutes exposure to 125 $^{\circ}\mathrm{C}$		
			15 seco	onds maximum transition between ter	mperatures
1-2-2	Temperature Cycle	1	One cyc	cle:	
			Step	Temperature (℃)	Time (min)
			1	-25±3	30
			2	25±2	3
			3	85±3	30
			4	25±2	3
			Total: 100cycles		
			Measured after exposure in the room condition for 24hrs		
1-2-3	Humidity Resistance	1	Temperature: 40±2°C		
			Relative Humidity: 90 ~ 95%		
			Time: 1000hrs		
			Measured after exposure in the room condition for 24hrs		
1-2-4	Heat Life	1	Temperature: 85±3°C		
			Relative Humidity: 20%		
			Applied	Current: Rated Current	
			Time: 1000hrs		
			Measured after exposure in the room condition for 24hrs		
1-2-5	Cold Resistance	1	Temperature: -25±3°C		
			Relative Humidity: 0%		
			Time: 1	000hrs	
			Measur	ed after exposure in the room conditi	ion for 24hrs



SCD0403T Series Specification

10 PACKAGING

10.1 Packaging -Cover tape



The force for tearing off cover tape is 10 to 60 grams in the arrow direction.

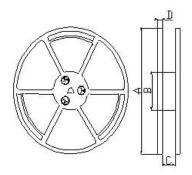
10.2 Packaging Quantity

TYPE	BULK	PCS/REEL
SCD0403	√	2000
SCD0504	✓	1500
SCD0703	√	1000
SCD0705	✓	700
SCD1004	✓	700
SCD1005	~	700

10.3 Reel Dimensions

Reel Dimension: m/m

TYPE	Α	В	С	D
SCD0403	330	100	13	13.4
SCD0504	330	100	13	17.4
SCD0703	330	100	13	17.4
SCD0705	330	100	13	17.4
SCD1004	330	100	13	24.4
SCD1005	330	100	13	24.4

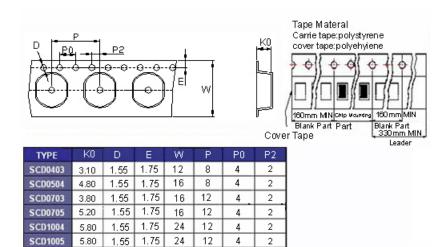




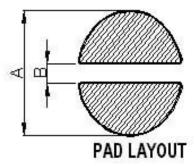
SCD0403T Series Specification

10 PACKAGING

10.4 Tape Dimensions in mm



11 Recommended Pattern



Dimensions in mm

TYPE	A(in/mm)	B(in/mm)
SCD0403	0.22/5.5	0.047/1.2
SCD0504	0.268/6.8	0.051/1.3
SCD0703	0.346/8.8	0.083/2.1
SCD0705	0.346/8.8	0.083/2.1
SCD1004	0.433/11	0.083/2.1
SCD1005	0.433/11	0.083/2.1

12 Note:

- 1. Please make sure that your product is has been evaluated and confirmed against your specifications when our product is mounted to your product.
- 2. Do not knock nor drop.
- 3. All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose,under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
- 4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)

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