

SPECIFICATION FOR APPROVAL

CUSTOMER :

CUSTOMER P/N :

OUR DWG No:

QUANTITY :

Pcs. DATE:

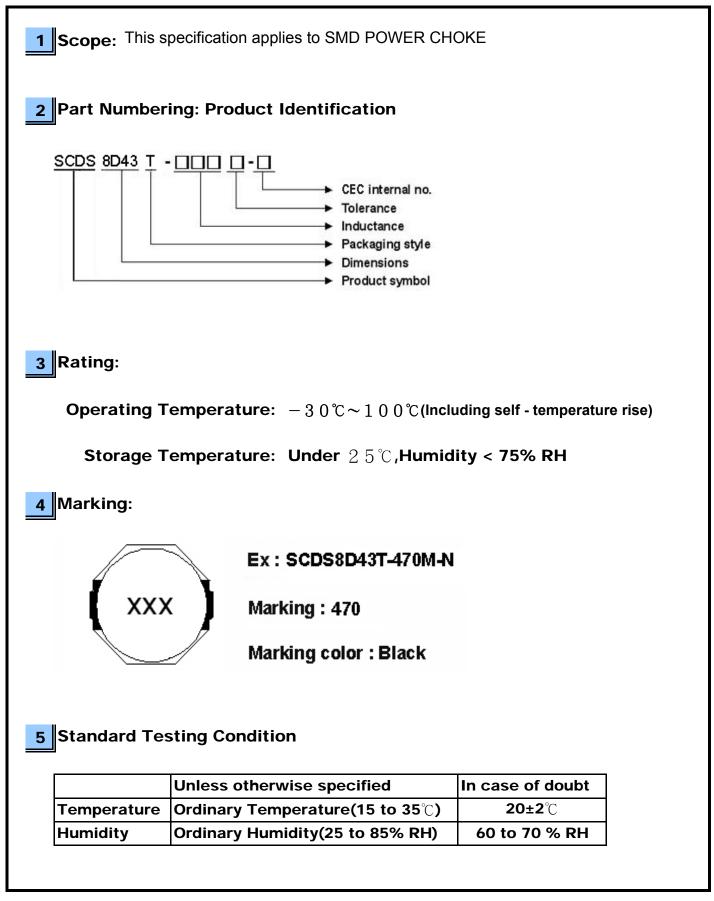
ITEM :

SCDS8D43T-6R8T-N

	SPECIFICATIO ACCEPTED BY:	
COMPONENT ENGINEER		
ELECTRICAL ENGINEER		
MECHANICAL ENGINEER		
APPROVED		
REJECTED		
奇力新電子股份有限公司 CHILISIN ELECTRONICS COF NO.29,LANE 301,TEHHSIN RG 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 RO/ HSIN TIEN,TAIPEI,TAIWAN, R TEL: (02)29112073 FAX: (02)29147698 E-mail: Sales@chilisin.com.tw	RP. DONG GUAN DAD,HUKOU, YULIANGWE QINGXI TOW CHINA TEL : 002867 FAX : 002867 E-mail : cecto 奇力新電子 CHILISIN EL NO.10, Zhu Y AD, Suzhou,P.R.O .O.C. TEL : 002865 FAX : 002865 E-mail : suzh	@chilisin.com.tw C(蘇州)有限公司 LECTRONICS(SUZHOU)CO.,LTD /uan Road, Suzhou New District, C. 512-8255568
DRAWN BY ANNIE	CHECKED BY 萬芳平	APPROVED BY 唐威德



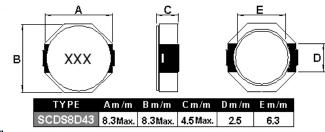
SCDS8D43T Series Specification





SCDS8D43T Series Specification

6 Configuration and Dimensions:



7 ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Rated Current (A)
SCDS8D43T-3R3□-N	3.3	100 kHz,1 V	0.019	5.7
SCDS8D43T-4R7 -N	4.7	100 kHz,1 V	0.022	5.6
SCDS8D43T-6R8N	6.8	100 kHz,1 V	0.025	4.4
SCDS8D43T-100□-N	10	100 kHz,1 V	0.036	4.0
SCDS8D43T-150□-N	15	100 kHz,1 V	0.053	2.9
SCDS8D43T-220D-N	22	100 kHz,1 V	0.075	2.4
SCDS8D43T-470 -N	47	100 kHz,1 V	0.15	1.8
SCDS8D43T-680□-N	68	100 kHZ,1 V	0.24	1.5

NOTE: -tolerance M=±20% / T=±30%

1.Operating temperature range -30 °C ~ 100 °C (Including self - temperature rise)

2.Rated Current:Inductance drop = 35% typ.

"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



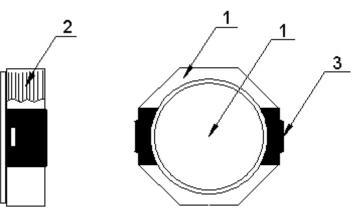
SCDS8D43T Series Specification



SCDS8D43T Series Specification

8 SCDS8D43T Series

8.1 Construction:



8.2 Material List:

ITEM	PART	DESCRIPTION	SUPPLIES
1	CORE	FERRITE	CHILISIN
2	WIRE	MAGNET WIRE	
3	TERMINAL	TERMINAL	CHILISIN



SCDS8D43T Series Specification

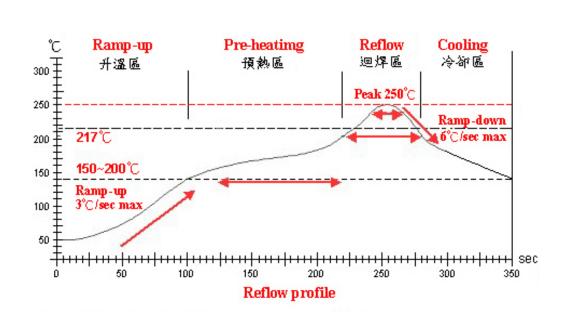
9 Reliability Of Ferrite Wire Wound Power Inductor 1-1.Mechanical Performance No Item Specification **Test Method** 1-1-1 Vibration Appearance: No damage Test device shall be soldered on the substrate Inductance:within±10% of Oscillation Frequency: 10 to 55 to 10Hz for 1min initial value Amplitude: 1.5mm Time: 2hrs for each axis (X, Y & Z), total 6hrs 1-1-2 Resistance to Soldering Heat Appearance: No damage Pre-heating: 150°C, 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°C, 1min least 95% covered with new Solder Composition: Sn/Ag3.0/Cu0.5 solder coating Solder Temperature: 245±5°C Immersion Time: 4±1sec 1-1-4 Resistance to solvent There must be no change in Inductors must withstand 6 minutes of alcohol or water. appearance or obliteration of marking. 1-2.Environmental Performance Specification **Test Method** No Item 1-2-1 Temperature Shock Appearance: No damage 10 cycles (Air to Air) 1 cycles shall consist of: Inductance:within±10% of 30 minutes exposure to -55 $^{\circ}C$ initial value 30 minutes exposure to 125 °C 15 seconds maximum transition between temperatures 1-2-2 Temperature Cycle One cycle: Step Temperature (°C) Time (min) 30 -40±3 1 2 25±2 3 30 3 105±3 25±2 4 3 Total: 100cycles Measured after exposure in the room condition for 24hrs 1-2-3 Humidity Resistance Temperature: 40±2°C Relative Humidity: 90 ~ 95% Time: 1000hrs Measured after exposure in the room condition for 24hrs 1-2-4 Heat Life 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 Temperature: -40±3°C

Relative Humidity: 0% Time: 1000hrs

Measured after exposure in the room condition for 24hrs



SCDS8D43T Series Specification



Lead-Free(LF) 標準溫度分析範圍

Refer to J-STD-020C

管制項目 Item.	升溫區 Ramp-up	預熱區 Pre-heatimg	迴焊區 Reflow	Peak Temp	冷卻區 Cooling
溫度範圍 Temp.scope	R.T. ~150° ℃	150°C ~ 200°C	21 7℃	250±5° C	Peak Temp. ~ 150℃
標準時間 Time spec.	_	60 ~ 180 sec	60 ~ 150 <i>s</i> ec	20 ~ 40 sec	—
實際時間 Time result		60 ~ 95 sec	75 ~ 95 sec	20 ~ 35 sec	_



SCDS8D43T Series Specification

10 TEST DATA FOR PREPRODUCTION SAMPLES

QF-1419

DESCRIPTION: SCDS8D43T-6R8T-N Rated MEAS. L RDC С Α в Current (uH) m/m Item (Ω) m/m m/m (A) Spec Customer 6.8±30% 4.5+0 0.025+0 4.4 8.3+0 8.3+0 Suggest Test Freq. 100kHz 1V 1 5.69 0.021 OK 8.04 8.00 4.43 2 5.68 0.023 ΟK 8.02 4.45 8.02 3 6.20 0.022 OK 8.01 8.04 4.46 4 ΟK 5.89 0.023 8.03 8.02 4.42 5 5.44 0.022 ΟK 8.01 8.03 4.44 6 7 8 9 10 11 12 13 14 15 Χ 5.78 0.0222 8.022 8.022 4.44 R 0.03 0.04 0.76 0.002 0.04 CUSTOMER SAMPLE

TEST INSTRUMENT:

L:HP4284A. RDC:CHEN HWA 502 Rated Current:HP4284A+HP42841A

APPEARANCE AND DIMENSIONS :

SPEC : MEET ITEM 6.

TEST METHOD : VISUAL INSPECTION AND MEASURED WITH SILDE CALIPERS.

TESTING CONDITIONS:

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

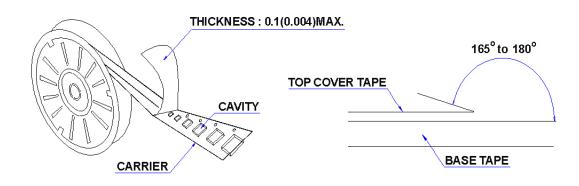


SCDS8D43T Series Specification

11 PACKAGING

11.1 Packaging -Cover tape

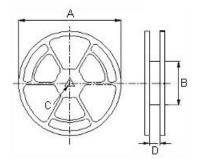
The force for tearing off cover tape is 10 to 130 grams in the arrow direction.



11.2 Packaging Quantity

ТҮРЕ	BULK	PCS/REEL
SCDS8D43	1	1000

11.3 Reel Dimensions



Reel Dimesions : m/m

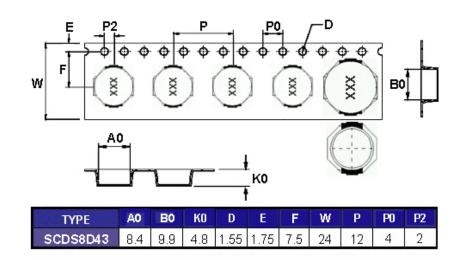
ТҮРЕ	A	В	С	D
SCDS8D43	330	100	13	24.4



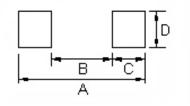
SCDS8D43T Series Specification

11 PACKAGING





12 Recommended Pattern



Dimensions in mm

TYPE	A(mm)	B(mm)	C(mm)	D(mm)
SCDS8D43	10.1	6.1	2.0	2.8

13 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)



SCDS8D43T Series Specification

