LEAD-FREE
& ROHS

SPECIFICATION FOR APPROVAL

www.jengshi.com

JENG SHI ELECTRONICS CO., LTD

正 旭 電 子 有 限 公 司

DATE: _____

CUSTOMER: _____

PART NUMBER: SMNR252010CTL-SERIES

CUSTOMER P.N :_____

DESCRIPTION:_____

APPLICATION:_____

SIGNATURE OF APPROVAL

_____

TEL: 03-365-3086 FAX:03-365-3186 桃園市八德區廣興一路86號
No. 86, Guangxing1st Rd., Bade Dist., TaoyuanCity 334026, Taiwan (R.O.C.)

正旭電子有限公司
Jeng Shi Electronics Co.,Ltd.

ERP No

DATE:

CUSTOMER P/N：

REVISION: **A**

ITEM： **SMNR252010CTL-SERIES**

SPEC No: **SA-S999-070**

REVISIONS

REV	DATE	DESCRIPTION	DRAWN	CHECKER
A		送样承认.	TanHao	Li Qunying

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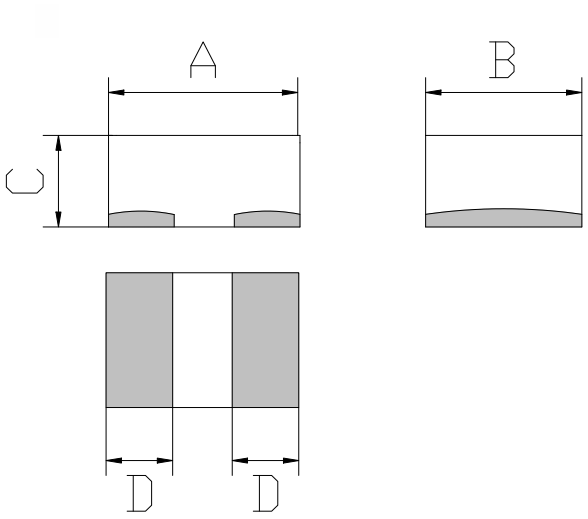
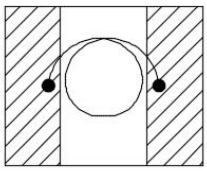
EXTERNAL DIMENSIONS UNIT: mm

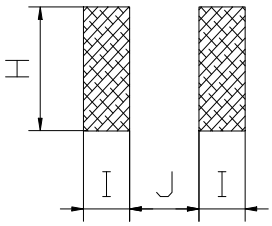


A	B	C	D
2.50±0.3	2.00±0.3	0.80±0.2	0.90±0.3

ELECTRICAL SCHEMATIC



PAD LAYOUT UNIT: mm



H	I	J
2.3	0.50	1.2

NOTE:

Operating temperature： -40℃~+125℃

Storage temperature： -40℃~+125℃

Storage environment： temperature：0℃~+40℃ humidity：RH10%~70%

Safe storage life: 12 months

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ELECTRICAL CHARACTERISTICS(@ 25℃)

Part No.	Inductance (uH)	Test Freq (Hz)	DCR (mΩ) (Typ)Max	Isat (A) (Typ)Max	Irms (A) (Typ)Max
SMNR252010CTL-R22M	0.22±20%	100K/1V	(12.0)15.0	(7.70)7.00	(7.20)6.60
SMNR252010CTL-R33M	0.33±20%		(16.0)19.0	(7.20)6.40	(6.60)6.00
SMNR252010CTL-R47M	0.47±20%		(20.0)24.0	(6.00)5.40	(5.80)5.10
SMNR252010CTL-R68M	0.68±20%		(25.0)30.0	(5.20)4.80	(5.10)4.70
SMNR252010CTL-1R0M	1.00±20%		(42.0)50.4	(4.60)3.80	(4.30)4.00
SMNR252010CTL-1R5M	1.50±20%		(60.0)72.0	(3.50)3.20	(3.30)3.00
SMNR252010CTL-2R2M	2.20±20%		(85.0)102	(3.00)2.70	(2.80)2.50
SMNR252010CTL-3R3M	3.30±20%		(130)156	(2.10)1.80	(2.00)1.70

1.Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃

2.Saturation Current (Isat) will cause L0 to drop approximately 30%.

3.The part temperature (ambient + temp rise) should not exceed 125℃under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

4.Irms Testing : Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components. Therefore temperature rise should be verified in application conditions.

5.Rated DC Current : The less value whith is Irms or Isat

6.Rated voltage 25V DC，The application of voltage depends on many factors，Over voltage may cause components failure、high temperature、and burn-out，User needs to verify for appropriate usage.

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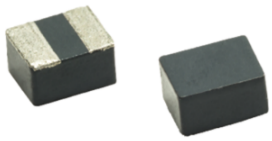
Material List

No.	Description	Specification
a	Core	
b	Wire	
c	Termination	

Product photos



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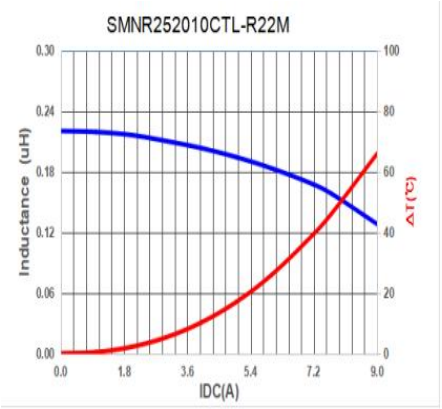
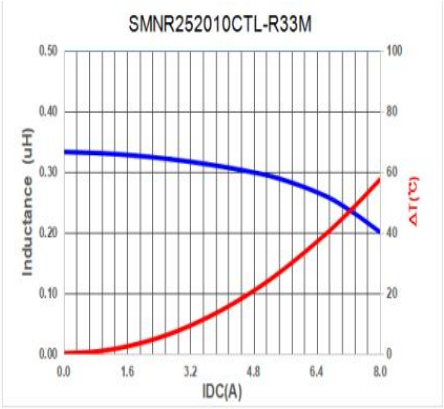
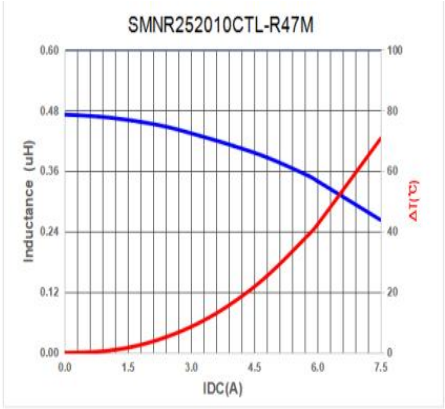
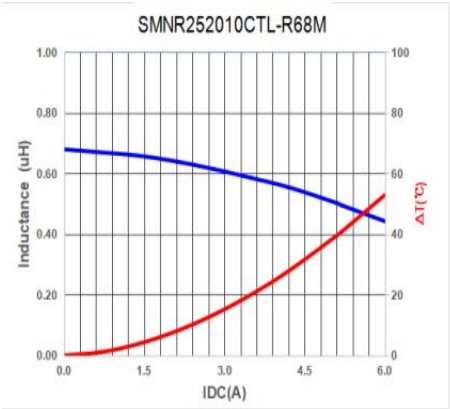
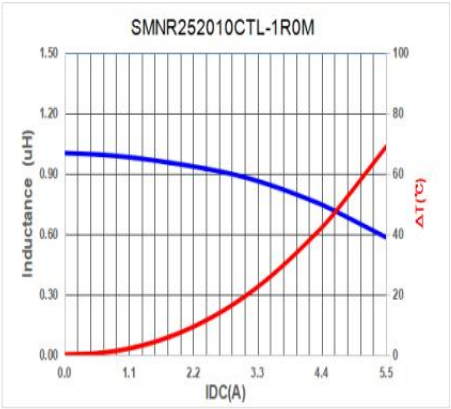
Curve

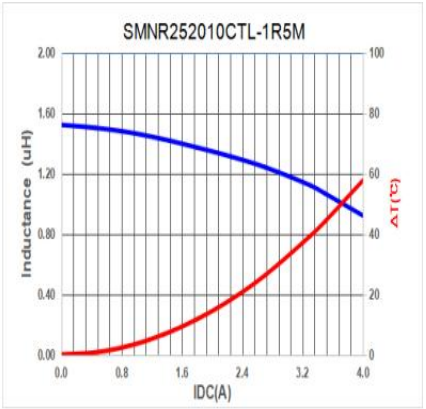


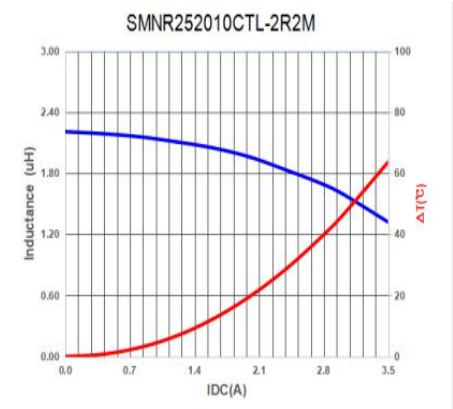


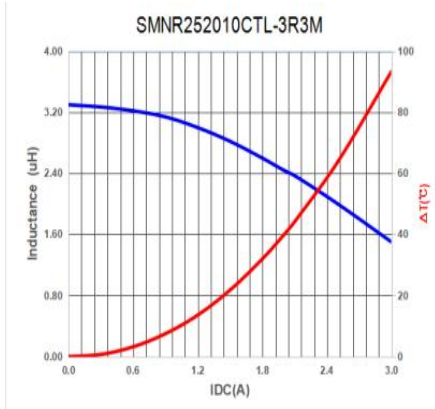












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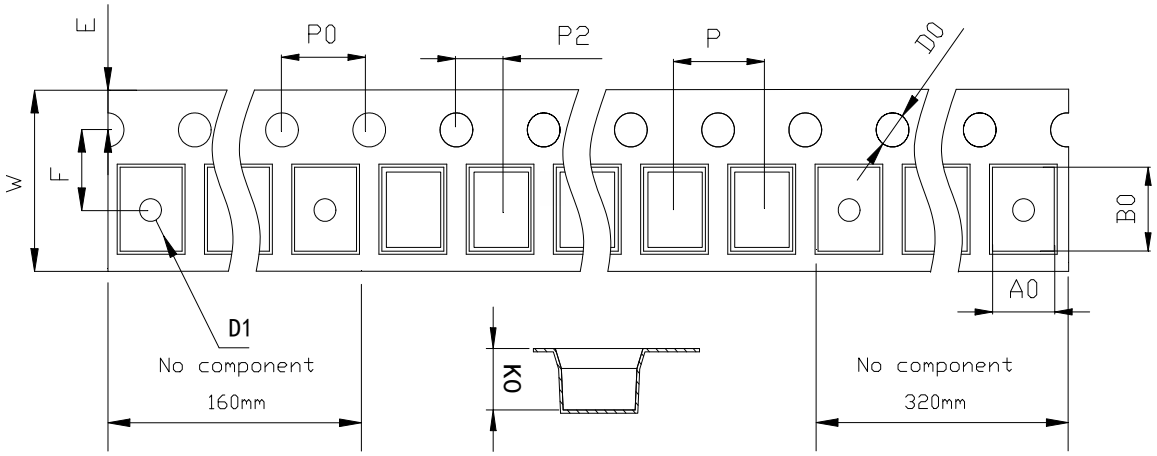
Packing

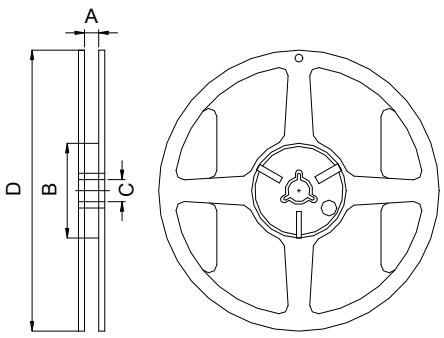
Carrier Tape (Unit:mm)



W=8.00
A0=2.45
B0=2.90
K0=1.35
P=4.0
P0=4.0
P2=2.0
F=3.5
E=1.75
D0=1.5
D1=1.0

透明载带+透明上带

Reel (Unit:mm)



A=8.4
B=60
C=13.0
D=178

QTY

Reel(Pcs)	2,000
Middle Carton(Pcs)	
Big Carton(Pcs)	
N.W(Kg)	
G.W(Kg)	