

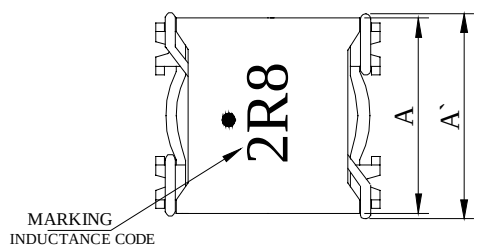
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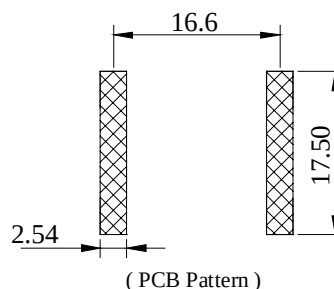
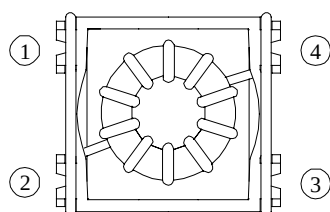
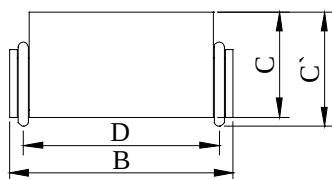
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		ABC'S ITEM NO.	

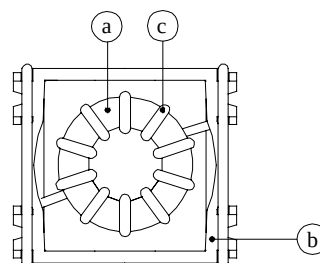
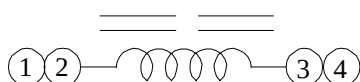
I . CONFIGURATION & DIMENSIONS :



A :	16.50 ± 0.3	m / m
A` :	17.70 max.	m / m
B :	19.05 ± 0.4	m / m
C :	8.89 typ.	m / m
C` :	10.80 max.	m / m
D :	16.60 typ.	m / m



II . SCHEMATIC DIAGRAM :



III . MATERIALS :

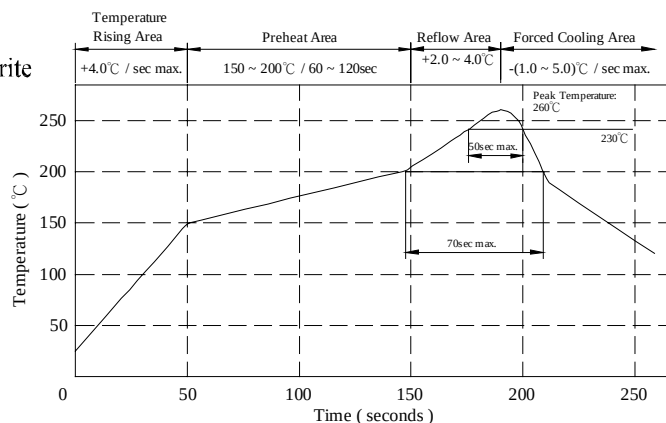
- a . Core : Iron Toroidal Core
- b . Case : PPS-R7
- c . Wire : Enamelled Copper Wire (class F)
- d . Adhesive : Epoxy Resin
- e . Remark : lead content 200 ppm max. include ferrite

Lead content under RoHS regulation.

IV . GENERAL SPECIFICATION :

- a . Temp. Rise : 40°C typ.
- b . Storage Temp. : -40°C ----+130°C
- c . Operating Temp. : -25°C ----+130°C
- d . Resistance To Solder Heat : 260°C.10 Secs.

Peak Temp : 260°C max.
Max time above 230°C : 50sec max.
Max time above 200°C : 70sec max.



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V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance @10KHz, 0.1 Vrms (μ H)	RDC(m Ω)		Irms(A) typ.	Isat(A) typ.
		max.	typ.		
ST20122R8ML□	$2.8 \pm 20\%$	5.6	4.3	10.0	9.0
ST20127R0ML□	$7.0 \pm 20\%$	8.4	6.4	7.5	5.8
ST2012100ML□	$10.0 \pm 20\%$	12.0	9.5	7.0	5.5
ST2012180ML□	$18.0 \pm 20\%$	20.0	15.3	6.0	3.6
ST2012240ML□	$24.0 \pm 20\%$	30.0	21.6	5.0	3.2
ST2012730ML□	$73.0 \pm 20\%$	70.0	54.0	2.8	1.8
ST2012121ML□	$120.0 \pm 20\%$	125.0	94.0	2.2	1.5

1). □ : Packaging information ... $\overline{A}$: Bulk $\overline{B}$: Taping Reel

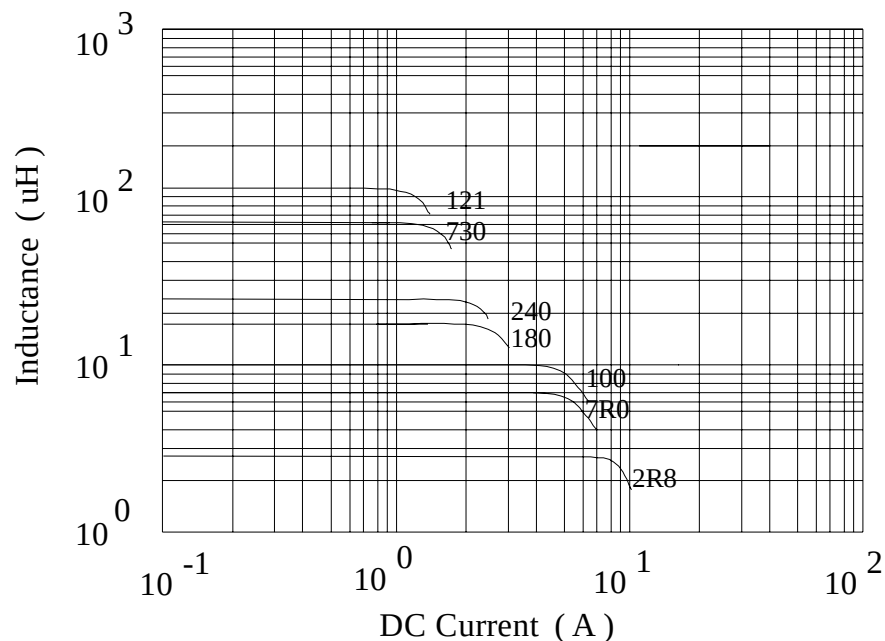
2). Irms base on Temp. rise 40°C typ.

3). Isat base on $\Delta L/L0A=30\%$ typ.

4). Test equipment : Inductance (WK-3260B)

RDC (CH-502-AC)

@ Inductance VS. DC Superposition Characteristics



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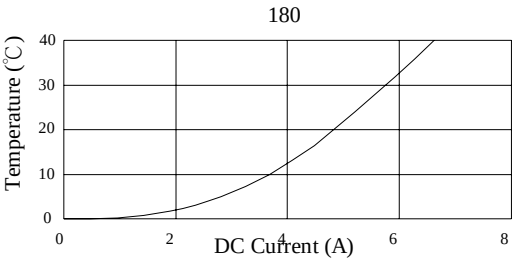
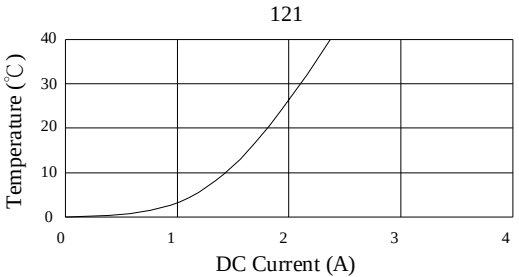
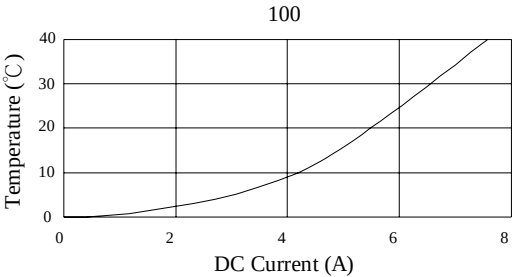
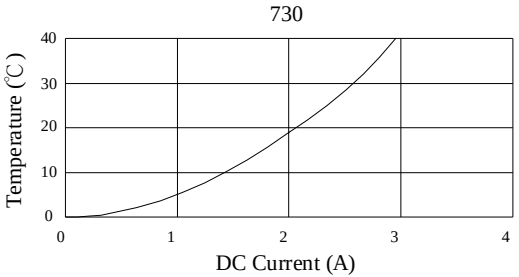
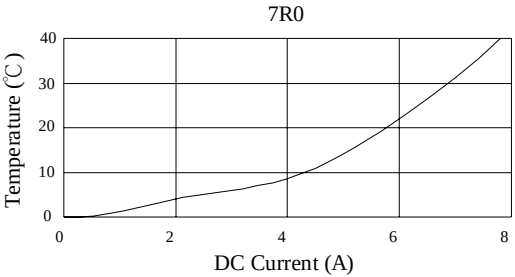
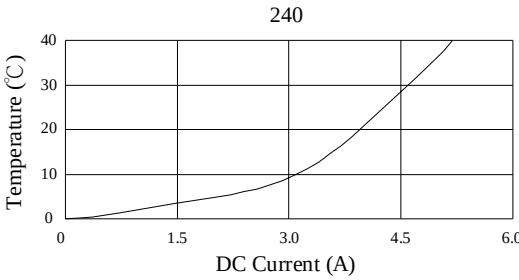
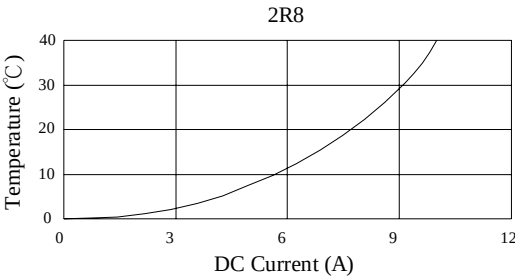
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@ DC Current VS Temperature Rise



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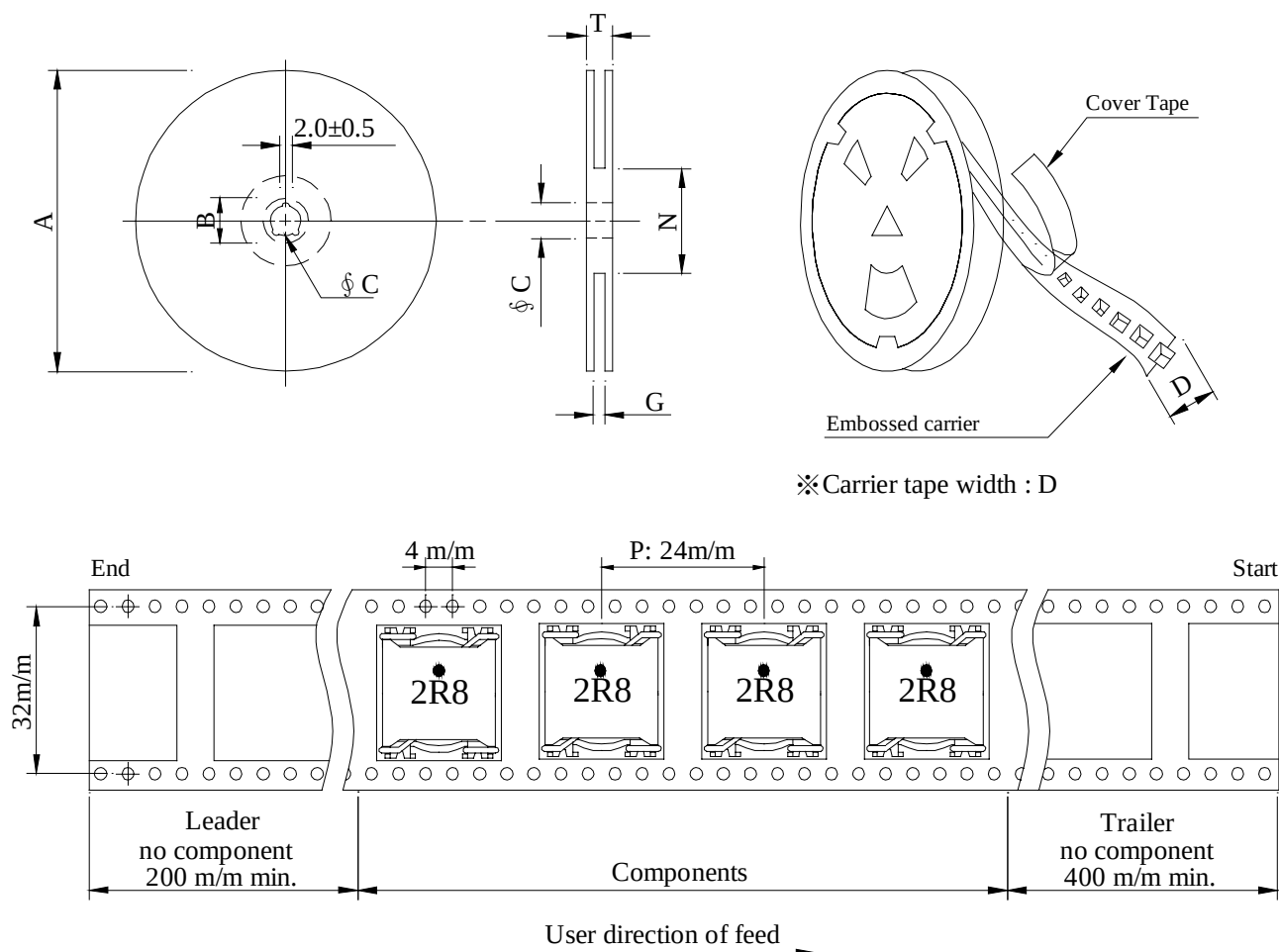
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VI . PACKAGING INFORMATION :

(1) Configuration



(2) Dimensions : (m/m)

Style	A	B	C	D	G	N	T
13 - 32	330	21±0.8	13±0.5	32	34 ⁺⁰	100 ⁻⁰	38.4

(3) Q'TY & G.W. Per Package :

Type	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (kg)	Size (cm)
ST2012	200	1000	13 - 32	800	5.5	40 x 40 x 24

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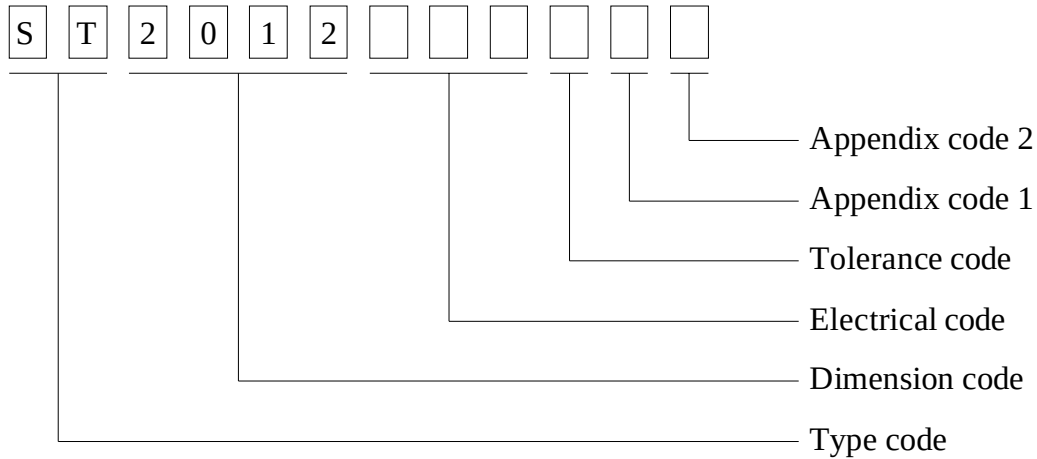
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VII . DWG EXPRESSION :



Appendix code 1 : S : Standard products

A ~ K , M ~ R , T ~ Z : Special products

L : Standard Lead Free products

1 ~ 9 : Special Lead Free products

Appendix code 2 :

Code	Inner Package	Inner Package Q'TY	Remark
A	Empty	Empty	
B	T / R (Reel Package)	200 pcs	

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VIII . RELIABILITY TEST :

Test item	Specification	Test condition
Solderability	More than 90% of the terminal electrode Shall be covered With fresh solder.	Preheat : $150\pm 25^{\circ}\text{C}$ for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : $235\pm 5^{\circ}\text{C}$ Flux : Rosin Dip time : 4 ± 1 seconds
Thermal shock test (Temp. cycle)	Inductance shall not change more than $\pm 20\%$	Room temp. $\longrightarrow$ $-25\pm 2^{\circ}\text{C}$ 15 minutes 30 minutes Room temp. $\longrightarrow$ $85\pm 2^{\circ}\text{C}$ 15 minutes 30 minutes Total : 50 cycles
Humidity Resistance test		Temperature : $40\pm 2^{\circ}\text{C}$ Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours
High temp. Resistance test		Temperature : $80\pm 2^{\circ}\text{C}$ Applied current : Per spec. Time : 500 hours

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IX . UL CARD :

OBMW2		September 8, 2000	
Magnet Wire-Component			
JUNG SHING WIRE CO LTD		E174837	
231 CHUNG CHENG RD, SEC 3 JEN-TEH HSIANG, TAINAN HSIEN TAIWAN			

Mtl Dsg	Mark Dsg	BC	Coat Typ	OC	ANSI Type	Temp Class
AIW	—	Polyamideimide	—	—	MW81-C	220
CFUEWB	—	Polyurethane	—	—	MW75C	130
EIAIW	—	Polyesterimide	Polyamideimide	—	MW35C	200
EILOCKY	—	Polyesterimide	Polyamide	—	—	180
EILOCKW	—	Polyesterimide	Modified Epoxy	—	—	200
EW	—	Polyesterimide	—	—	—	220
EW-2	—	Polyesterimide	—	—	MW74-C	200
FL.EILOCKY	—	Modified Polyester	Polyamide	—	—	155
LSFFW	—	Polyurethane	—	—	MW79-C	155
LSUEW	—	Polyurethane	—	—	—	130
PEW	—	Polyester	—	—	—	155
PEY	—	Polyester	Nylon	—	MW24-C	155
SF.FLW	—	Modified Polyester	—	—	MW26C	155
SF.EIW	—	Polyesterimide	—	—	MW77C	180
SF.BY@	—	Modified Polyester	Nylon	—	MW27-C	155
SF.FLY@	—	Modified Polyester	Nylon	—	MW27-C	155
SF.BLOCKBS	—	Modified Polyester	Modified Polyamide	—	—	155
SF.EILOCKY#	—	Polyesterimide	Polyamide	—	—	180
SF.EILOCKBS	—	Polyesterimide	Modified Polyamide	—	—	180
SF.BW@	—	Modified Polyester	—	—	MW26C	155
SFFW	—	Polyurethane	—	—	MW79	155

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Mtl Dsg	Mark Dsg	BC	Coat Typ	OC	ANSI Type	Temp Class
SFFY	—	Polyurethane	—	Polyamide	MW80C	155
UEW-1	—	Polyurethane	—	—	MW2-C	105
UEW-2	—	Polyurethane	—	—	—	130
UEW-4	—	Polyurethane	—	—	MW75C	130
UEY	—	Polyurethane	Nylon	—	MW28-C	130
UEY-2	—	Polyurethane	Polyamide	—	MW28-C	130

@-May be suffixed by LZ; # - May be suffixed by LZ, EL or LZL.
LZ - Signifies magnd wires twisted together; EL - signifies base coated magnet wire laid parallel with top coat applied overall; LZL - signifies base coated magnet wire twisted together and covered with top coat overall.

Marking: Company name or trademarks JSW or 聚如電線, material designation or marked designation on packaed or reel, and Recognized Component Mark.

See General Information Preceding These Recognitions
For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

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