

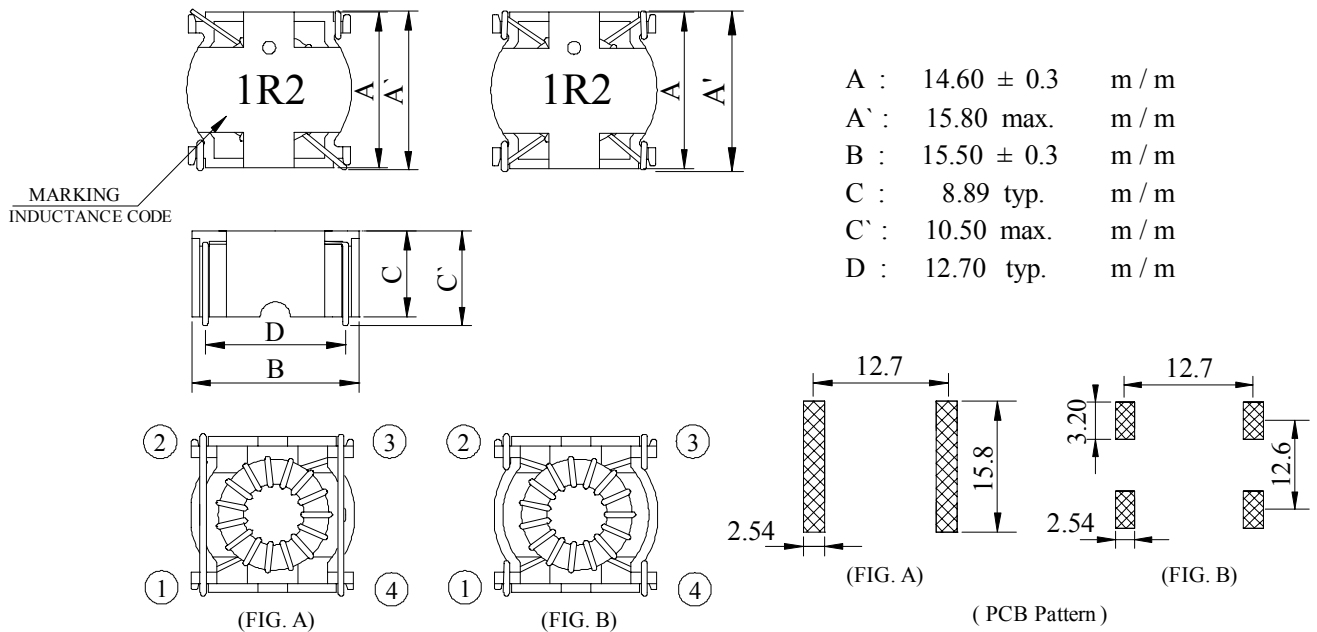
SPECIFICATION FOR APPROVAL

REF : 20070821-A

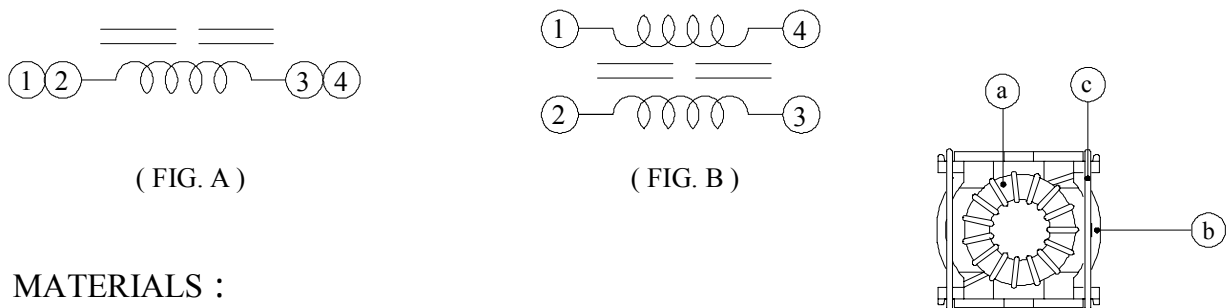
PAGE: 1

PROD. NAME	SMD TOROIDAL POWER FILTER	ABC'S DWG NO.	ST1510□□□□L□-□□□
		ABC'S ITEM NO.	

CONFIGURATION & DIMENSIONS :



SCHEMATIC DIAGRAM :



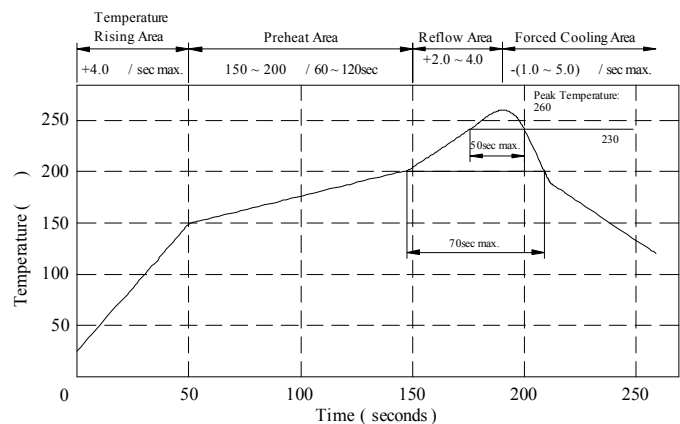
MATERIALS :

- a . Core : Iron Toroidal Core
- b . Case : PPS-R7
- c . Wire : Enamelled Copper Wire (class F)
- d . Adhesive : Epoxy Resin
- e . Remark : Products comply with RoHS' requirements

GENERAL SPECIFICATION :

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

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



AR-001A

ABC 千如電子集團
ABC ELECTRONICS GROUP.

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REF : 20070821-A

PAGE: 2

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. ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance @10KHz, 0.1 Vrms (μ H)	RDC(m Ω) (Each Winding)		Irms(A)	Isat(A)	FIG.
		max.	typ.			
ST15101R2ML□-□□□	$1.2 \pm 20\%$	10.0	7.8	10.0	12.5	B
ST15102R3ML□-□□□	$2.3 \pm 20\%$	13.5	10.3	9.5	9.0	B
ST15107R5ML□-□□□	$7.5 \pm 20\%$	13.5	10.1	7.8	5.5	A
ST1510140ML□-□□□	$14.0 \pm 20\%$	24.0	19.2	5.4	3.4	A
ST1510430ML□-□□□	$43.0 \pm 20\%$	56.0	44.7	3.5	1.9	A
ST1510500ML□-□□□	$50.0 \pm 20\%$	60.0	47.0	3.3	1.75	A

1). □ : Packaging information ... **A** : Bulk **B** : Taping Reel

2). "- □□□":Reference code

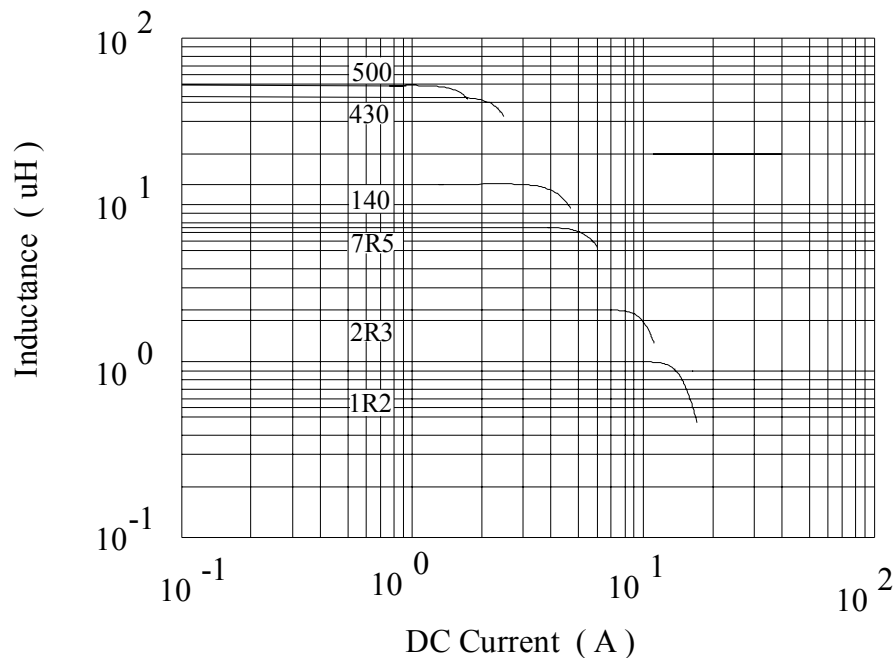
3). Irms base on Temp. rise 40 typ.

4). Isat base on L/L0A=30% typ.

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

RDC (CH-502-AC)

@ Inductance VS. DC Superposition Characteristics



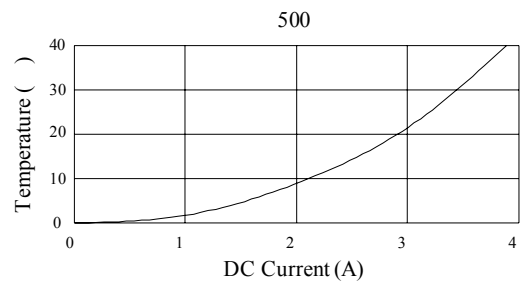
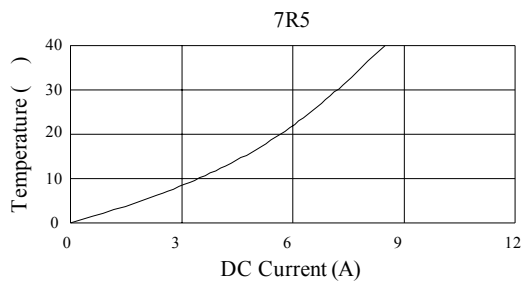
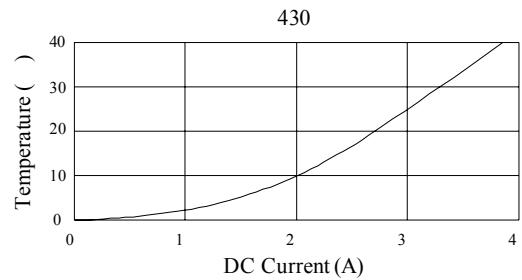
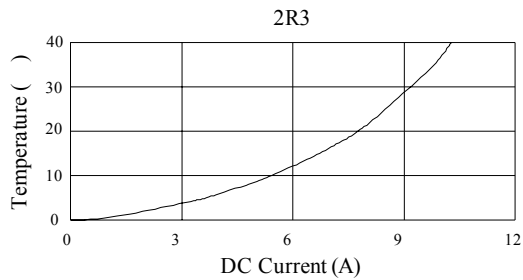
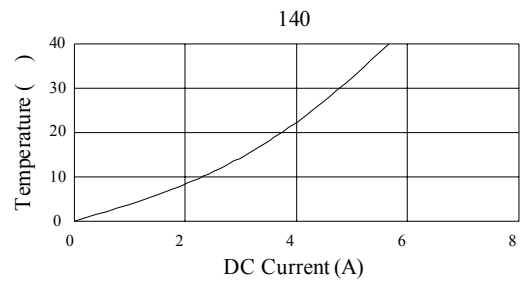
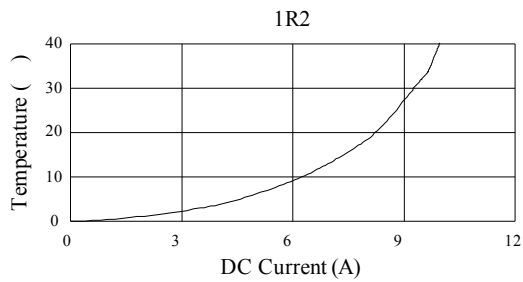
SPECIFICATION FOR APPROVAL

REF : 20070821-A

PAGE: 3

PROD. NAME	SMD TOROIDAL POWER FILTER	ABC'S DWG NO.	ST1510□□□□L□-□□□
		ABC'S ITEM NO.	

@ DC Current VS Temperature Rise



SPECIFICATION FOR APPROVAL

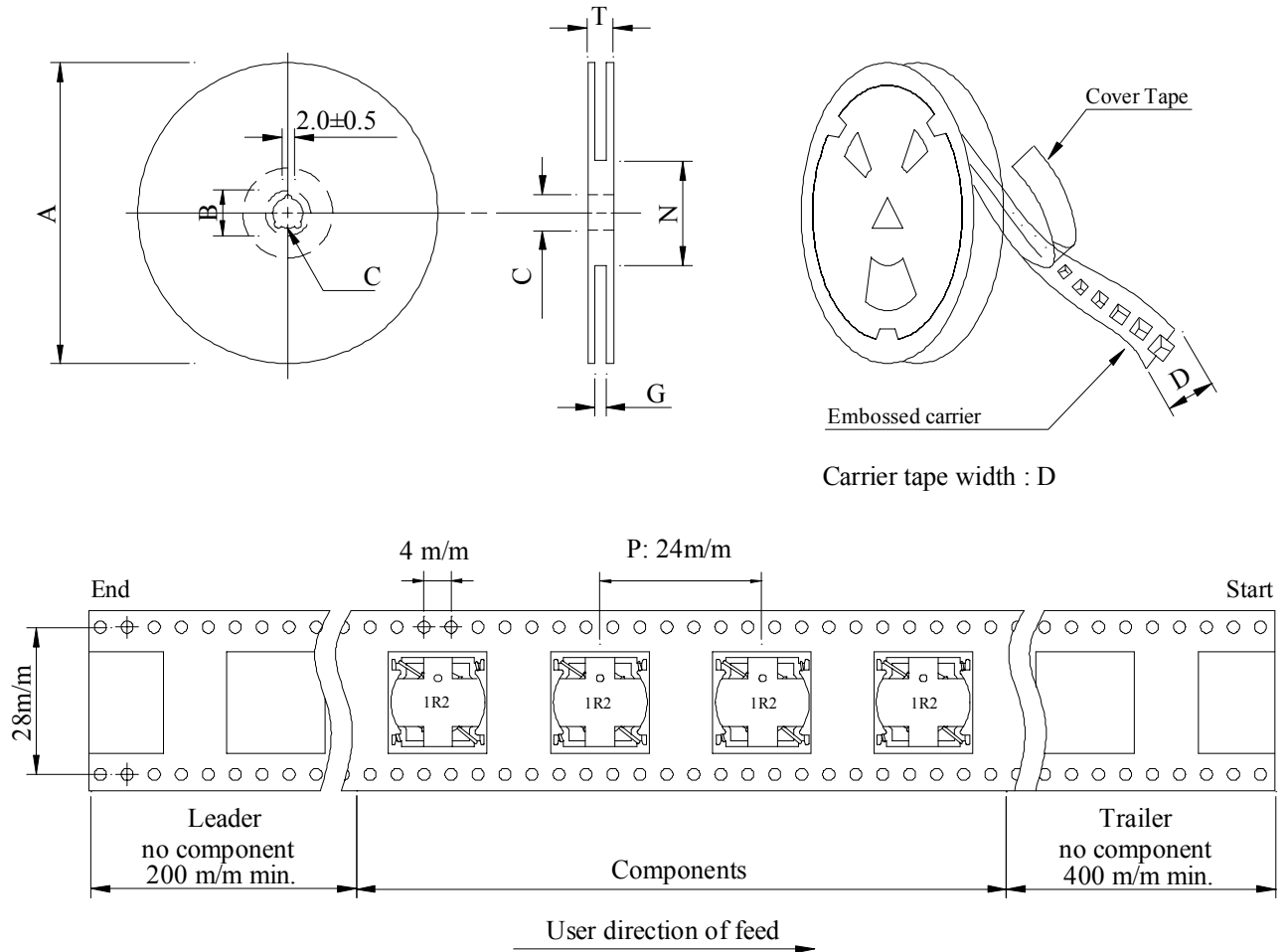
REF : 20070821-A

PAGE: 4

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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)
ST1510	200	800	13 - 32	800	5.0	40 x 40 x 24

AR-001A

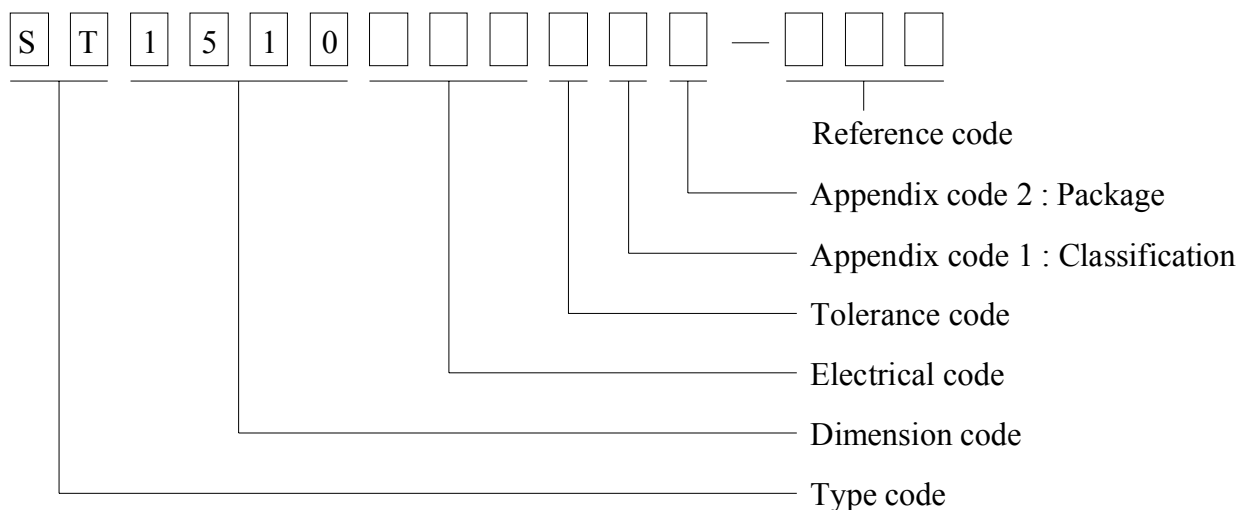
SPECIFICATION FOR APPROVAL

REF : 20070821-A

PAGE: 5

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	ST1510□□□□L□-□□□
		ABC'S ITEM NO.	

. DWGING NUMBER EXPRESSION :



Appendix code 1 : Product Classification

L : Lead Free Standard products comply with RoHS' requirements

1 ~ 9 : Lead Free Special products comply with RoHS' requirements

Appendix code 2 : Package Information

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

AR-001A

SPECIFICATION FOR APPROVAL

REF : 20070821-A

PAGE: 6

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. RELIABILITY TEST :

Test item	Specification	Test condition
Solderability	More than 95% of the terminal electrode Shall be covered With fresh solder.	Preheat : 155 / 4 hours. Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5 Flux : Rosin Dip time : 5±0.5 seconds
Thermal shock test (Temp. cycle)	Electrical oharacteristics shall not change more than ±20%	Room temp. $\longrightarrow$ -25 15 minutes 30 minutes Room temp. $\longrightarrow$ +130 15 minutes 30 minutes Total : 50 cycles
Humidity test		Temperature : 40±2 Humidity : 90±5% Time : 1000 hours
High temp. Resistance test		Temperature : 130±5 Applied current : Per spec. Time : 96 hours

SPECIFICATION FOR APPROVAL

REF : 20070821-A

PAGE: 7

PROD.	SMD TOROIDAL POWER FILTER	ABC'S DWG NO.	ST1510□□□□L□-□□□
NAME		ABC'S ITEM NO.	

. 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
EIW	—	Polyesterimide	—	—	—	220
EIW-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

287806002		Page 1 of 2		A not-for-profit organization dedicated to public safety and committed to quality service	
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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 magnet 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  or 聚錫電線, 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.

287806002		Page 2 of 2		OBMW2/E174837 September 8, 2000	
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AR-001A