

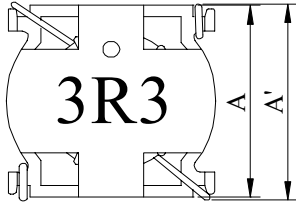
SPECIFICATION FOR APPROVAL

REF :

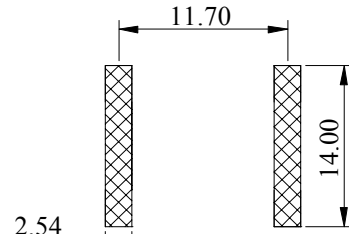
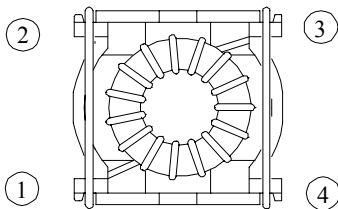
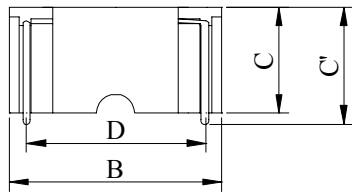
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PROD. NAME	SMD TOROIDAL POWER FILTER	ABC'S DWG NO.	ST1409□□□□L□-□□□
		ABC'S ITEM NO.	

. CONFIGURATION & DIMENSIONS :

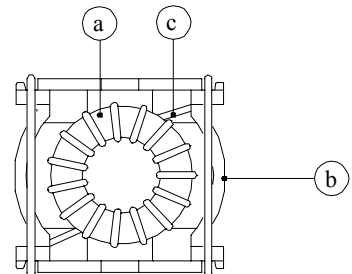
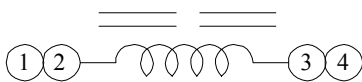


- A : 13.80 ± 0.3 m / m
- A' : 14.80 max. m / m
- B : 14.00 ± 0.3 m / m
- C : 7.90 typ. m / m
- C' : 9.20 max. m / m
- D : 11.70 typ. m / m



(PCB Pattern)

. SCHEMATIC DIAGRAM :



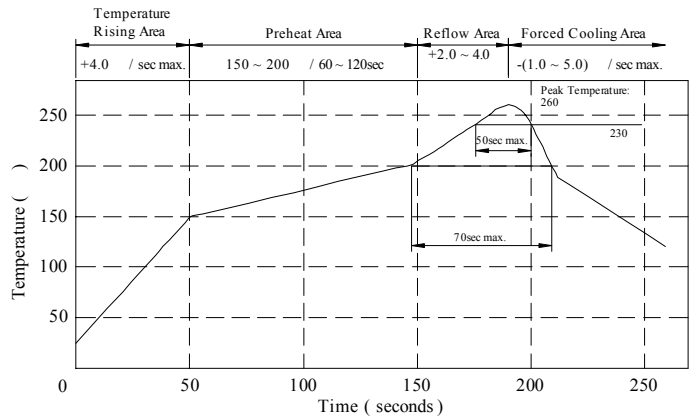
. MATERIALS :

- 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

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

. 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.



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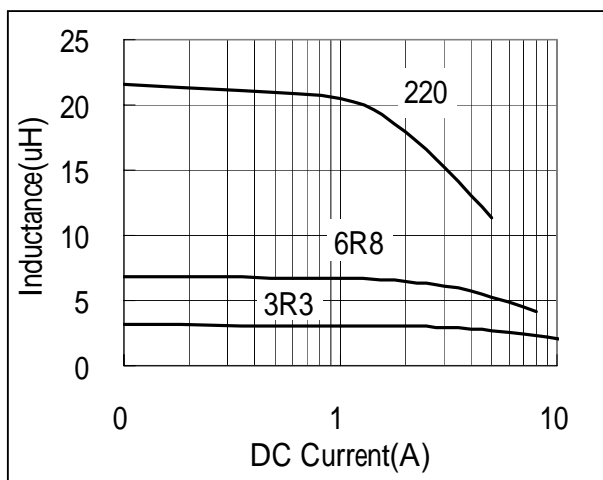
PROD. NAME	SMD TOROIDAL POWER FILTER	ABC'S DWG NO.	ST1409□□□□L□-□□□
		ABC'S ITEM NO.	

. ELECTRICAL CHARACTERISTICS :

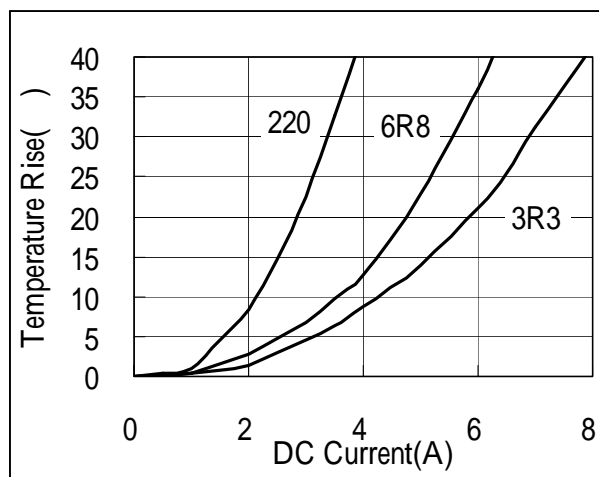
DWG No.	Inductance @10KHz, 0.1 Vrms (μH)	RDC(mΩ) (Each Winding)		Irms(A)	Isat(A)
		max.	typ.		
ST14093R3ML□-□□□	3.30 ± 20%	14.5	11.0	7.80	10.40
ST14096R8ML□-□□□	6.80 ± 20%	21.0	16.0	6.20	7.20
ST1409220ML□-□□□	22.00 ± 20%	57.0	44.0	3.80	3.50

- 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=35% typ.

@ Inductance VS. DC Current Curve



@ DC Current VS. Temp. Rise (T) Curve



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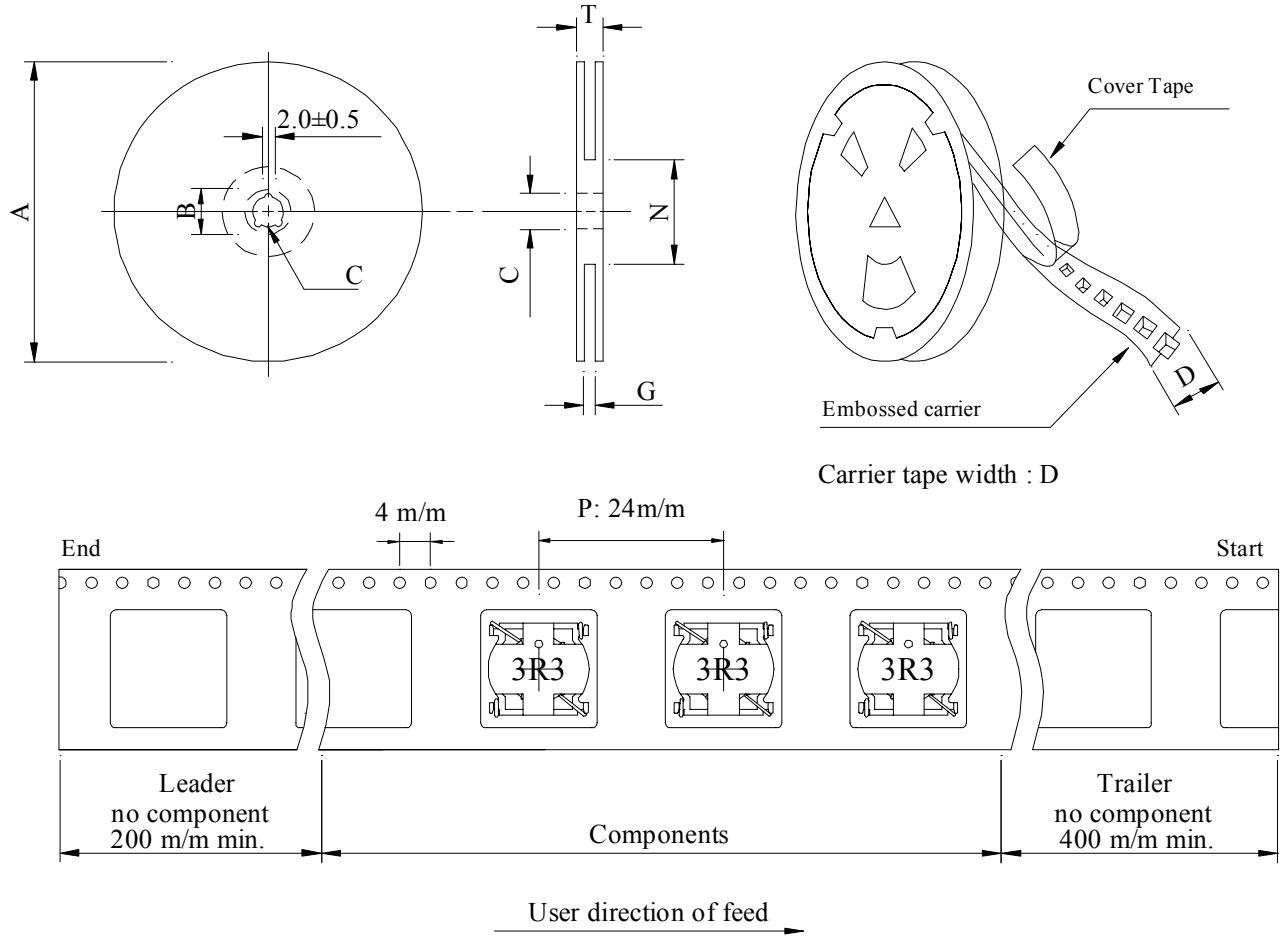
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PROD. NAME	SMD TOROIDAL POWER FILTER	ABC'S DWG NO.	ST1409□□□□L□-□□□
		ABC'S ITEM NO.	

PACKAGING INFORMATION :

(1) Configuration



(2) Dimensions : (m/m)

Style	A	B	C	D	G	N	T
13 - 24	330	21±0.8	13±0.5	24	26 ⁺⁰	50 ⁻⁰	30.4

(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)
ST1409	150	400	13 - 24	600	3.0	40 x 40 x 24

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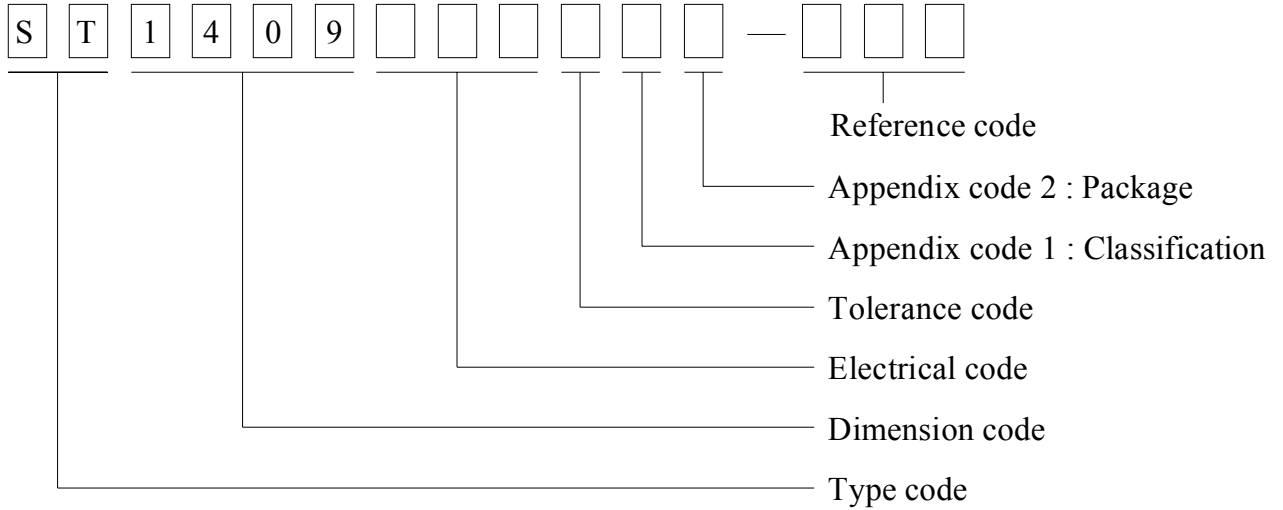
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. DWGING NUMBER EXPRESSION :



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)	150 pcs	

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PROD. NAME	SMD TOROIDAL POWER FILTER	ABC'S DWG NO.	ST1409□□□□L□-□□□
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. RELIABILITY TEST :

Test item	Specification	Test condition						
Solderability	More than 90% of the terminal electrode shall be covered With fresh solder.	Preheat : 150±25 for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5 Flux : Rosin Dip time : 4±1 seconds						
Thermal shock test (Temp. cycle)	Inductance shall not change more than ±20%	<table style="width: 100%; border: none;"> <tr> <td style="border: none;">Room temp. 15 minutes</td> <td style="border: none; text-align: center;">—————▶</td> <td style="border: none; text-align: right;">-25±2 30 minutes</td> </tr> <tr> <td style="border: none;">Room temp. 15 minutes</td> <td style="border: none; text-align: center;">—————▶</td> <td style="border: none; text-align: right;">85±2 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	—————▶	-25±2 30 minutes	Room temp. 15 minutes	—————▶	85±2 30 minutes
Room temp. 15 minutes	—————▶	-25±2 30 minutes						
Room temp. 15 minutes	—————▶	85±2 30 minutes						
Humidity Resistance test		Temperature : 40±2 Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours						
High temp. Resistance test		Temperature : 80±2 Applied current : Per spec. Time : 500 hours						

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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

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A not-for-profit organization dedicated to public safety and committed to quality service

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 LZI.
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 聚興線業, 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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OBMW2E174837
September 8, 2000

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QMFZ2		Wednesday, January 22, 2003									
Component-Plastics		CHEVRON PHILLIPS CHEMICAL CO L P								E54700	
Mti Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI Imp	Mech Str	H W I	H A I	H V R	D 4 5	C T I
Polyphenylene sulfide (PPS), glass reinforced, designated "RYTON", furnished as pellets.											
R-4-230NA	NC	0.38	V-0	130	130	130	—	—	4	5	4
		0.71	V-0	200	200	200	4	1	4	5	4
		1.5	V-0	220	200	220	0	0	4	5	4
		1.8	5VA	220	200	220	—	—	4	5	4
		3.0	V-0, 5VA	220	200	220	0	0	4	5	4
		6.0	V-0, 5VA	220	200	220	0	0	4	5	4
Report : 12/07/1982											
		Sunday, August 23, 1998									
Polyphenylene sulfide (PPS), glass reinforced, mineral reinforced, designated "RYTON", furnished as pellets.											
R-7	NC,BK,TN	0.71	V-0	200	200	200	1	0	0	5	3
		1.5	V-0	220	220	220	1	0	0	5	3
		3.0	V-0	220	220	220	1	0	0	5	3
		6.0	V-0	220	220	220	—	—	0	5	3
Report : 08/30/1983											
Underwriters Laboratories Inc. ®										984485002	

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