

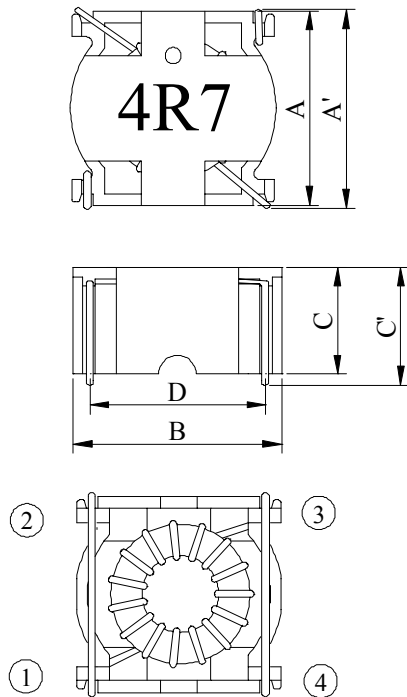
SPECIFICATION FOR APPROVAL

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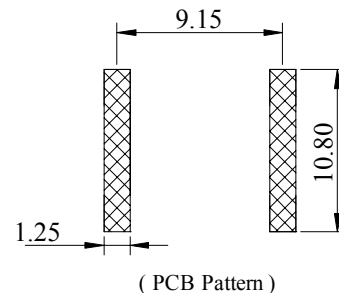
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PROD. NAME	SMD TOROIDAL POWER FILTER	ABC'S DWG NO.	ST1209□□□□L□-□□□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :

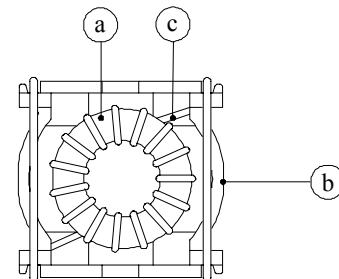
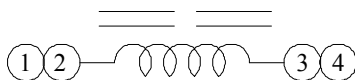


A :	10.80 ± 0.3	m / m
A' :	11.20 max.	m / m
B :	10.90 ± 0.3	m / m
C :	7.90 typ.	m / m
C' :	8.90 max.	m / m
D :	9.15 typ.	m / m



(PCB Pattern)

II . SCHEMATIC DIAGRAM :

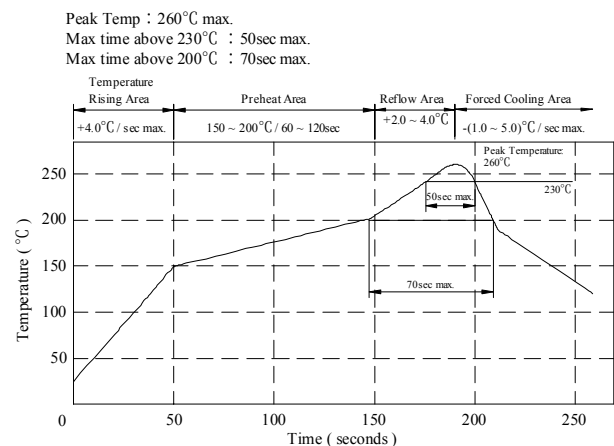


III . MATERIALS :

- a . Core : Iron toroidal core
- b . Case : PPS-R7
- c . Wire : Enamelled copper wire (Class F)
- d . Adhesive : Epoxy resin
- e . Remark : Products comply with RoHS' requirements

IV . GENERAL SPECIFICATION :

- a . Temp. rise : 40°C typ.
- b . Storage Temp. : -40°C ----+125°C
- c . Operating Temp. : -25°C----+125°C
- d . Resistance to solder heat : 260°C.10 Secs.



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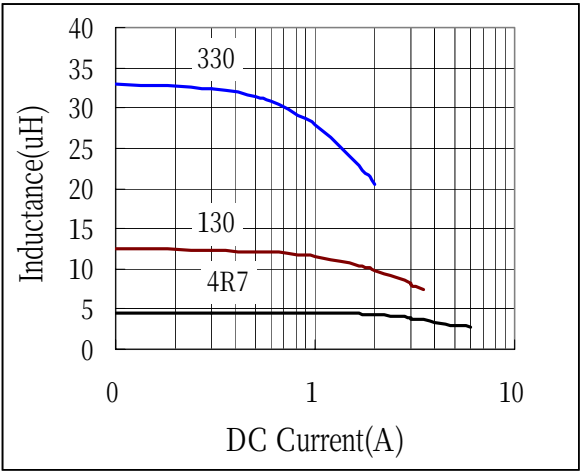
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		ABC'S ITEM NO.	

V . ELECTRICAL CHARACTERISTICS :

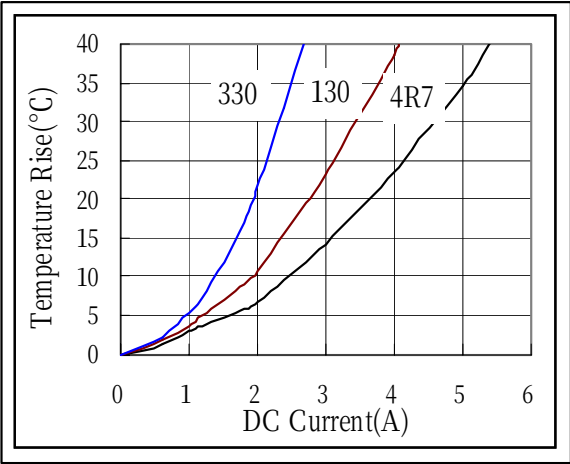
DWG No.	Inductance @10KHz, 0.1 Vrms (μ H)	RDC(m Ω) (Each Winding)		Irms(A) typ.	Isat(A) typ.
		max.	typ.		
ST12094R7ML□-□□□	4.70 $\pm$ 20%	18.0	13.7	5.4	5.10
ST1209130ML□-□□□	13.00 $\pm$ 20%	38.0	28.8	4.0	3.00
ST1209330ML□-□□□	33.00 $\pm$ 20%	86.0	66.3	2.6	1.85

- 1). □ : Packaging information ... **A** □ Bulk **B** □ Taping Reel
- 2). "- □□□":Reference code
- 3). Irms base on Temp. rise 40°C typ.
- 4). Isat base on $\Delta L/L0A=35\%$ typ.

@ Inductance VS. DC Current Curve



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



SPECIFICATION FOR APPROVAL

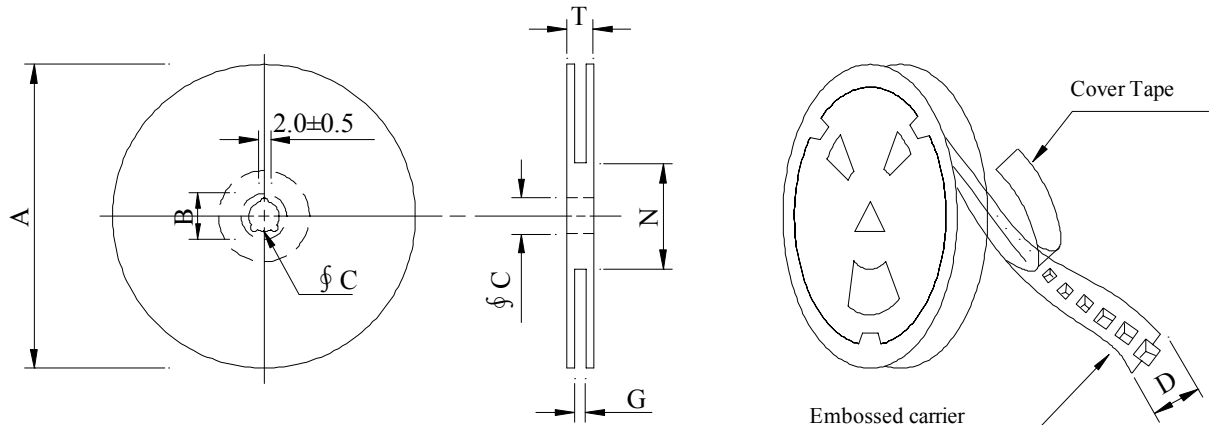
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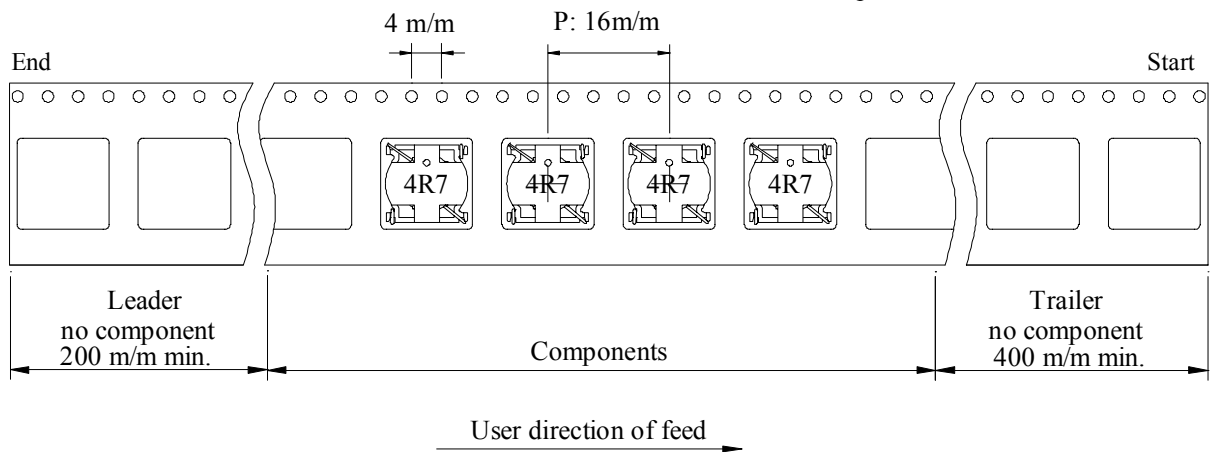
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		ABC'S ITEM NO.	

VI . PACKAGING INFORMATION :

(1) Configuration



※ Carrier tape width : D



(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)
ST1209	400	750	13 - 24	1600	4.0	40 x 40 x 24

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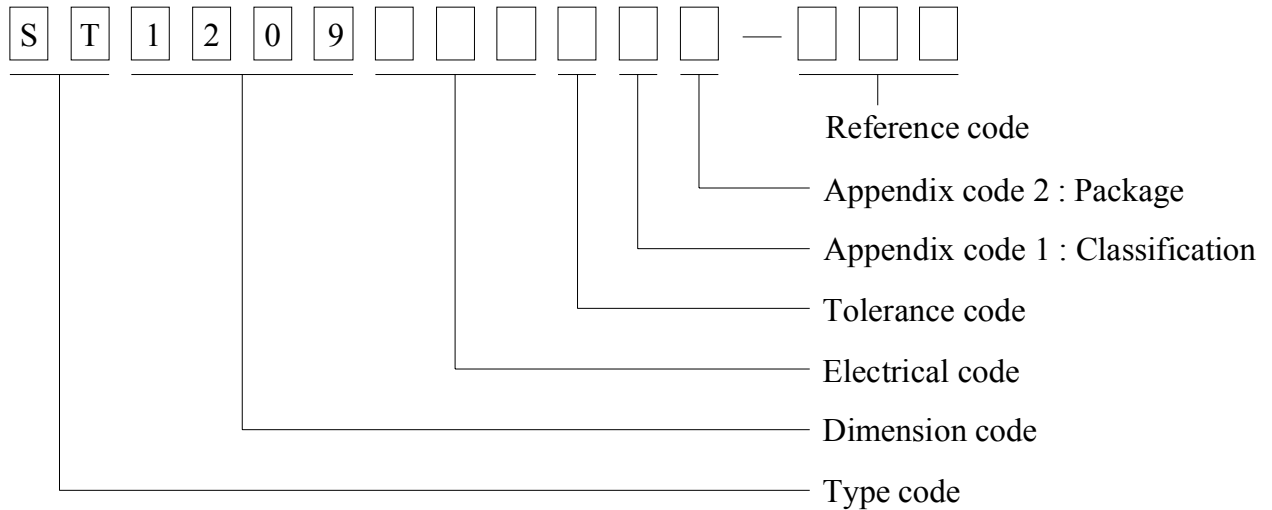
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VII . DWGING NUMBER EXPRESSION :



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)	400 pcs	

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VIII . RELIABILITY TEST :

Test item	Specification	Test condition
Solderability	More than 95% of the terminal electrode Shall be covered With fresh solder.	Preheat : 155°C / 4 hours. Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5°C Flux : Rosin Dip time : 5±0.5 seconds
Thermal shock test (Temp. cycle)	Electrical oharacteristics shall not change more than ±20%	Room temp. 15 minutes → -25 °C 30 minutes Room temp. 15 minutes → +125 °C 30 minutes Total : 50 cycles
Humidity test		Temperature : 40±2°C Humidity : 90±5% Time : 1000 hours
High temp. Resistance test		Temperature : 125±5°C Applied current : Per spec. Time : 96 hours

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IX . UL CARD :

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

September 8, 2000

E174837

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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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 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  , 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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QMFZ2		Wednesday,January 22, 2003									
Component-Plastics											
CHEVRON PHILLIPS CHENICAL 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 T R	D 4 9 5	C T I
Polyphenylene sulfide (PPS), glass reinterced, 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 reinterced, 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	