

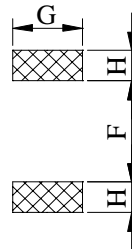
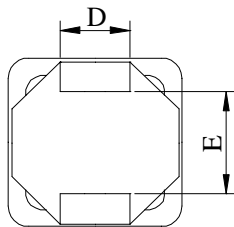
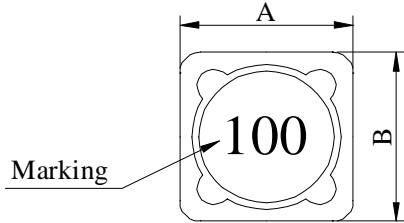
# SPECIFICATION FOR APPROVAL

REF :

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SS1240□□□□L□-□□□
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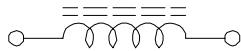
**. CONFIGURATION & DIMENSIONS :**



(PCB Pattern)

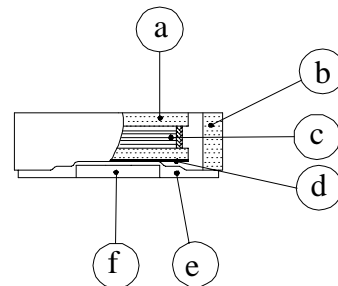
- A : 12.5 ±0.3 m/m
- B : 12.5 ±0.3 m/m
- C : 4.0 ±0.5 m/m
- D : 5.0 ±0.3 m/m
- E : 7.0 typ. m/m
- F : 6.8 ref. m/m
- G : 5.4 ref. m/m
- H : 2.9 ref. m/m

**. SCHEMATIC DIAGRAM :**



**. MATERIALS :**

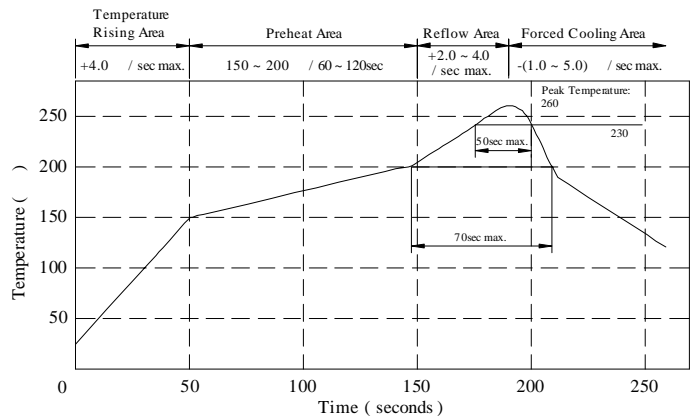
- a . Core : Ferrite DR core
- b . Core : Ferrite RI core
- c . Wire : Enamelled copper wire ( class F )
- d . Base : LCP
- e . Terminal : Cu/Ni/Sn
- f . Adhesive : Epoxy resin
- g . Remark : Products comply with RoHS' requirements



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 ----+125
- c . Operating temp. : -40 ----+125  
( Temp. rise included )
- d . Resistance to solder heat : 260 . 10 secs.



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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SS1240□□□□L□-□□□
		ABC'S ITEM NO.	

**ELECTRICAL CHARACTERISTICS :**

DWG No.	Inductance ( μH )	Q ref.	Test Freq. ( MHz )	SRF ( MHz ) typ.	RDC ( mΩ ) max.	Irms ( A )	Isat ( A )
SS12401R0YL□-□□□	1.0±30%	10	7.96	85	7.0	9.30	9.20
SS12401R5YL□-□□□	1.5±30%	16	7.96	80	9.5	9.20	9.00
SS12402R4YL□-□□□	2.4±30%	10	7.96	54	11.5	8.00	7.80
SS12403R3YL□-□□□	3.3±30%	14	7.96	43	15.0	6.80	6.50
SS12404R7ML□-□□□	4.7±20%	16	7.96	33	18.0	6.00	5.60
SS12405R6ML□-□□□	5.6±20%	14	7.96	35	20.0	5.40	5.10
SS12406R8ML□-□□□	6.8±20%	14	7.96	34	23.0	5.20	4.70
SS12408R2ML□-□□□	8.2±20%	10	7.96	32	27.0	4.50	4.30
SS1240100ML□-□□□	10.0±20%	17	2.52	27	32.0	4.00	4.00
SS1240120ML□-□□□	12.0±20%	16	2.52	25	38.0	3.80	3.60
SS1240150ML□-□□□	15.0±20%	16	2.52	22	47.0	3.50	3.20
SS1240180ML□-□□□	18.0±20%	14	2.52	20	55.0	3.20	3.00
SS1240220ML□-□□□	22.0±20%	18	2.52	16	67.5	3.00	2.60
SS1240270ML□-□□□	27.0±20%	16	2.52	15.5	85.0	2.55	2.35
SS1240330ML□-□□□	33.0±20%	19	2.52	15	97.0	2.30	2.10
SS1240390ML□-□□□	39.0±20%	14	2.52	14	120.0	2.15	2.00
SS1240470ML□-□□□	47.0±20%	19	2.52	13	135.0	2.00	1.80
SS1240560ML□-□□□	56.0±20%	16	2.52	12	170.0	1.80	1.65
SS1240680ML□-□□□	68.0±20%	19	2.52	11	200.0	1.50	1.50
SS1240820ML□-□□□	82.0±20%	16	2.52	10	250.0	1.35	1.35
SS1240101ML□-□□□	100.0±20%	14	0.796	8	300.0	1.25	1.20
SS1240121KL□-□□□	120.0±10%	12	0.796	7.8	370.0	1.20	1.15
SS1240151KL□-□□□	150.0±10%	12	0.796	7.5	440.0	1.10	1.05
SS1240181KL□-□□□	180.0±10%	12	0.796	7.0	550.0	0.98	0.95
SS1240221KL□-□□□	220.0±10%	12	0.796	6.6	600.0	0.92	0.90
SS1240271KL□-□□□	270.0±10%	10	0.796	6.0	780.0	0.80	0.80
SS1240331KL□-□□□	330.0±10%	12	0.796	5.5	950.0	0.75	0.75
SS1240391KL□-□□□	390.0±10%	12	0.796	5.0	1150.0	0.70	0.65
SS1240471KL□-□□□	470.0±10%	12	0.796	4.5	1350.0	0.62	0.60
SS1240561KL□-□□□	560.0±10%	12	0.796	4.0	1500.0	0.55	0.52
SS1240681KL□-□□□	680.0±10%	14	0.796	3.8	2000.0	0.50	0.48
SS1240821KL□-□□□	820.0±10%	10	0.796	3.5	2400.0	0.45	0.42
SS1240102KL□-□□□	1000.0±10%	16	0.252	2.8	3000.0	0.42	0.40

- 1). □ : Packaging Information...  A : Bulk  B : Taping Reel
- 2). "- □□□□ " : Reference code
- 3). Inductance test freq. : 100KHz / 0.1V
- 4). Irms base on temp. rise 40 typ.
- 5). Isat base on L/LOA=25 % typ.

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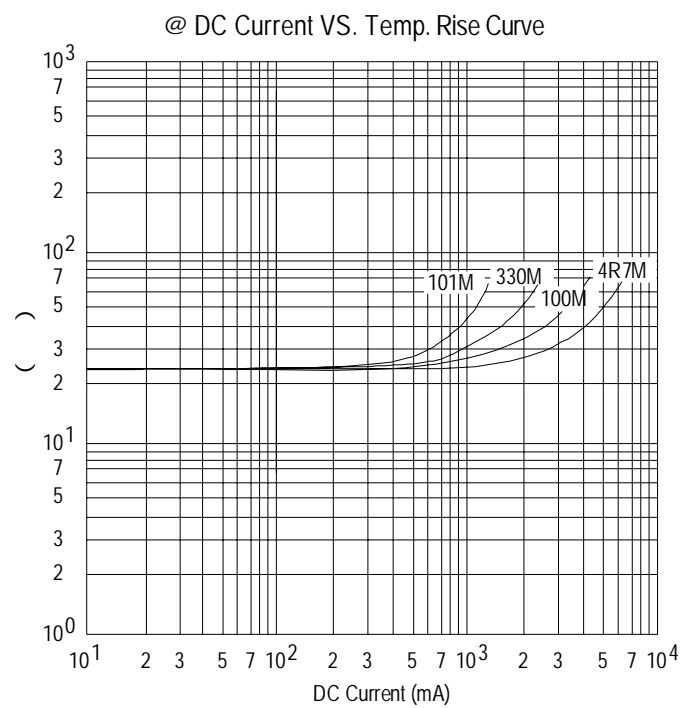
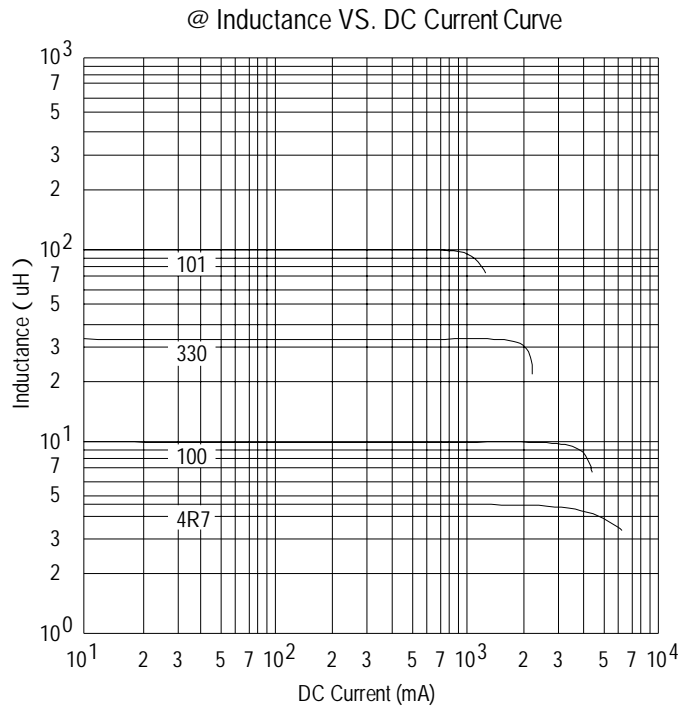


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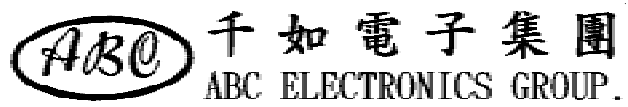
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SS1240□□□□L□-□□□
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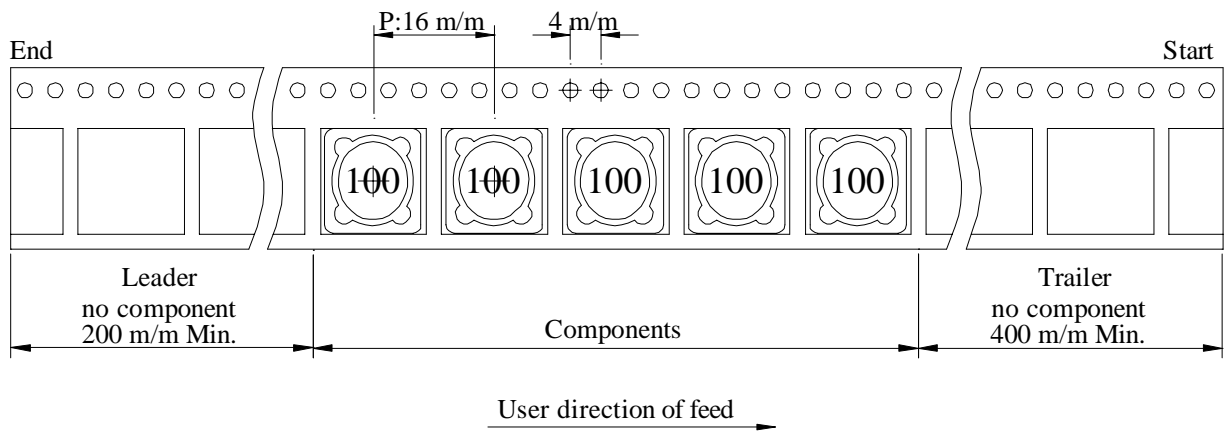
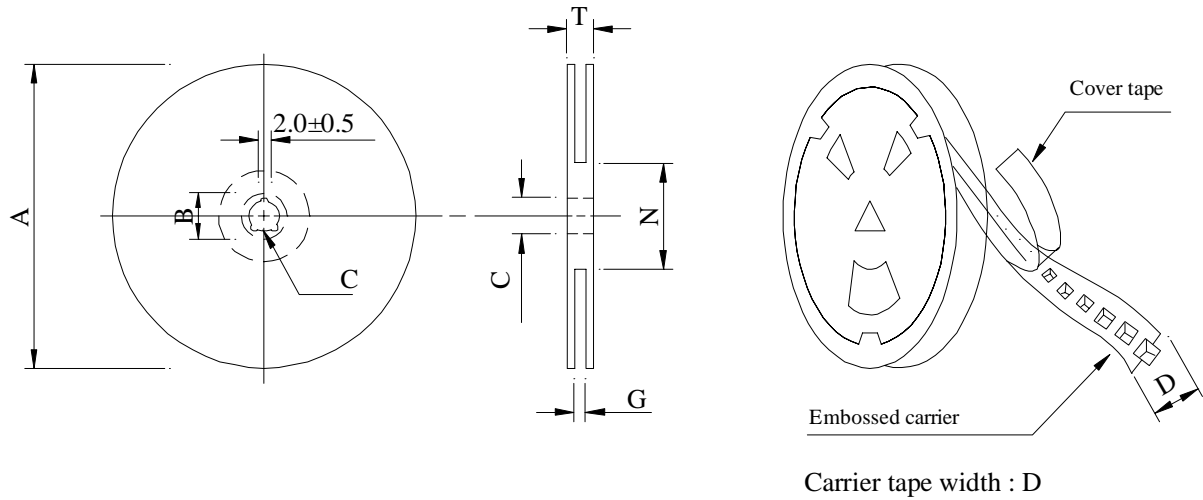
REF :

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SS1240□□□□L□-□□□
		ABC'S ITEM NO.	

**PACKAGING INFORMATION :**

( 1 ) Configuration



( 2 ) Dimensions

Unit:m/m

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

( 3 ) Q'TY & G.W. Per package

Series	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
SS1240	800	2,200	13 - 24	3,200	11.0	40 x 40 x 24

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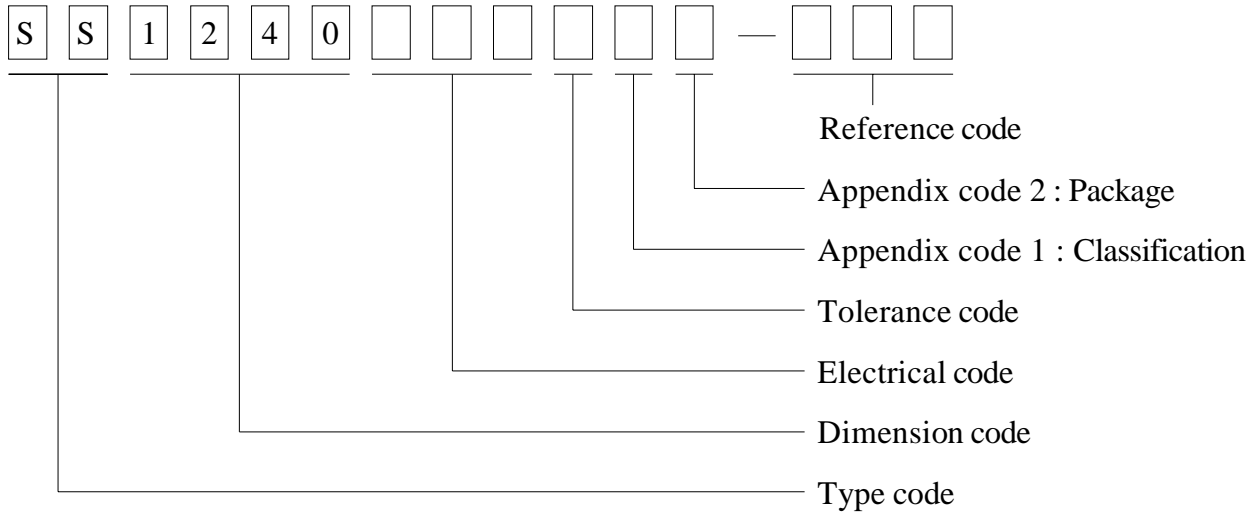
# SPECIFICATION FOR APPROVAL

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SS1240□□□□L□-□□□
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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)	800 pcs	

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SS1240□□□□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="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;"><u>-25±2</u> 30 minutes</td> </tr> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;"><u>85±2</u> 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	<u>-25±2</u> 30 minutes	Room temp. 15 minutes	→	<u>85±2</u> 30 minutes
Room temp. 15 minutes	→	<u>-25±2</u> 30 minutes						
Room temp. 15 minutes	→	<u>85±2</u> 30 minutes						
Humidity Resistance test		Temperature : 40±2 Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours						
High temp. Resistance test		Temperature : 85±2 Applied current : Per spec. Time : 500 hours						

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<b>PROD. NAME</b>	<b>SHIELDED SMD POWER INDUCTOR</b>	<b>ABC'S DWG NO.</b>	<b>SS1240□□□□L□-□□□</b>
		<b>ABC'S ITEM NO.</b>	

**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	Coat Typ	ANSI Type	Temp Class
		BC	OC	
AIW	---	Polyamideimide	---	MW81-C 220
CFUEWB	---	Polyurethane	---	MW75C 130
EIAIW	---	Polyesterimide	Polyamideimide	MW35C 200
EILOCKY	---	Polyesterimide	Polyamide	---
EILOCKW	---	Polyesterimide	Modified Epoxy	---
EIW	---	Polyesterimide	---	---
EIW-2	---	Polyesterimide	---	MW74-C 200
FLEILOCKY	---	Modified Polyester	Polyamide	---
LSFFW	---	Polyurethane	---	MW79-C 155
LSUEW	---	Polyurethane	---	---
PEW	---	Polyester	---	---
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	---
SF.EILOCKY#	---	Polyesterimide	Polyamide	---
SF.EILOCKBS	---	Polyesterimide	Modified Polyamide	---
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	Coat Typ	ANSI Type	Temp Class
		BC	OC	
SFFY	---	Polyurethane	Polyamide	MW80C 155
UEW-1	---	Polyurethane	---	MW2-C 105
UEW-2	---	Polyurethane	---	---
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 magned 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 榮星電線, 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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September 8, 2000

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<b>PROD. NAME</b>	<b>SHIELDED SMD POWER INDUCTOR</b>	<b>ABC'S DWG NO.</b>	<b>SS1240□□□□L□-□□□</b>
		<b>ABC'S ITEM NO.</b>	

		SUMITOMO CHEMICAL CO LTD 5-33 KITAHAMA 4-CHOME CHUO-KO, OSAKA JAPAN						E54705 (M)			
Mtl Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI		H W I	H A I	H V R	D 4 5	C T I
					with Imp	Mech w/o Imp					
Liquid crystal polyester (LCP), designated "EKONOL" or "SUMIKASUPER", furnished in the form of pellets, (Contd)											
E4008, E400X	NC, BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	130	130	130	3	4	—	—	—
		1.5	94V-0	130	130	130	2	4	—	—	—
E4008	NC, WT, BK	0.30	94V-0	130	130	130	1	4	0	5	4
		0.75	94V-0	130	130	130	—	—	—	—	—
		1.5	94V-0	220	180	220	3	4	—	—	—
E4010	NC, BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	220	180	220	3	4	—	—	—
		1.5	94V-0	220	200	240	2	4	—	—	—
E400(Y)L, E4008L	NC, BK	0.30	94V-0	130	130	130	1	4	0	5	4
		0.75	94V-0	130	130	130	—	—	—	—	—
		1.5	94V-0	130	130	130	2	4	—	—	—
E4810	NC, BK	0.30	94V-0	130	130	130	1	4	0	5	4
		0.75	94V-0	130	130	130	—	—	—	—	—
		1.5	94V-0	130	130	130	0	4	—	—	—
		3.0	94V-0	130	130	130	1	4	0	5	4

(X) Denotes any number 1 thru 9.  
(Y) Denotes any number 1 thru 7.