

SPECIFICATION FOR APPROVAL

REF :

PAGE: 1

PROD. NAME	SHIELDED SMD	ABC'S DWG No.	SP6045□□□□L□-□□□
	POWER INDUCTOR	ABC'S ITEM No.	

. MECHANICAL DIMENSIONS :

A : 6.60±0.30 m/m

B : 6.60±0.30 m/m

B' : 7.00±0.30 m/m

C : 4.50±0.30 m/m

D : 3.20 typ. m/m

E : 1.50 typ. m/m

(PCB Pattern)

. SCHEMATIC DIAGRAM :

. MATERIALS LIST :

- a . Core : Iron ER core
- b . Core : Iron I core
- c . Wire : Ultra-fine rectangular Enamelled copper wire
- d . Adhesive : Epoxy resin
- e . Remark : Products comply with RoHS' requirements

. GENERAL SPECIFICATION :

- a . Storage temp. : -55 ~ +125
- b . Operating temp. : -55 ~ +125
(Temp. rise included)
- c . 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

SPECIFICATION FOR APPROVAL

REF :

PAGE: 2

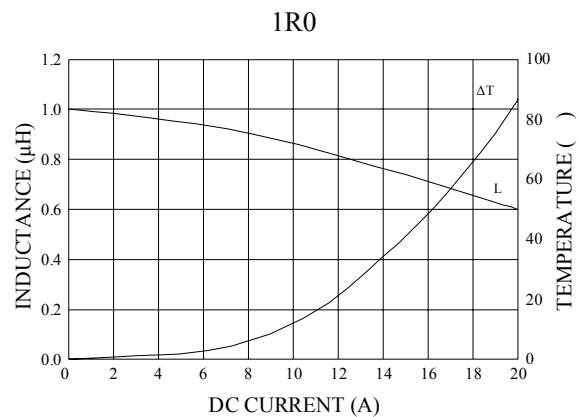
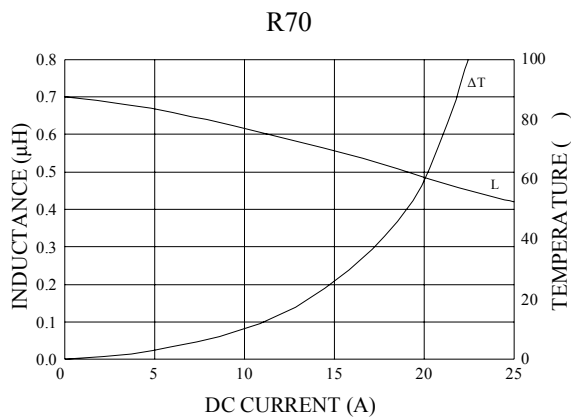
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	SP6045□□□□L□-□□□
		ABC'S ITEM No.	

. ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance L (μ H)	Isat (A)	Irms (A)	RDC ($m\Omega$)	
				max.	typ.
SP6045R70YL□-□□□	$0.70 \pm 25\%$	15.0	16.0	4.8	3.7
SP60451R0YL□-□□□	$1.00 \pm 25\%$	12.0	13.0	6.0	4.6
SP60451R5YL□-□□□	$1.50 \pm 25\%$	10.0	11.0	6.9	5.3
SP60452R0YL□-□□□	$2.00 \pm 25\%$	8.0	9.0	10.7	8.2
SP60452R5YL□-□□□	$2.50 \pm 25\%$	7.0	8.4	11.8	9.1
SP60453R0YL□-□□□	$3.00 \pm 25\%$	6.3	6.6	17.3	13.3
SP60453R9YL□-□□□	$3.90 \pm 25\%$	6.0	6.2	19.1	14.7
SP60454R5YL□-□□□	$4.50 \pm 25\%$	5.4	5.8	20.8	16.0

- 1). □ : Packaging information ... [A]: Bulk [B]: Taping Reel
- 2). "-□□□":Reference code
- 3). Measured frequency of inductance is 100 KHz / 1V
- 4). Isat base on inductance drop 25% typ. of L value at 20
- 5). Irms base on temp. rise 40 typ.

@ Performance Graphs



AR-001A



千如電子集團
ABC ELECTRONICS GROUP.

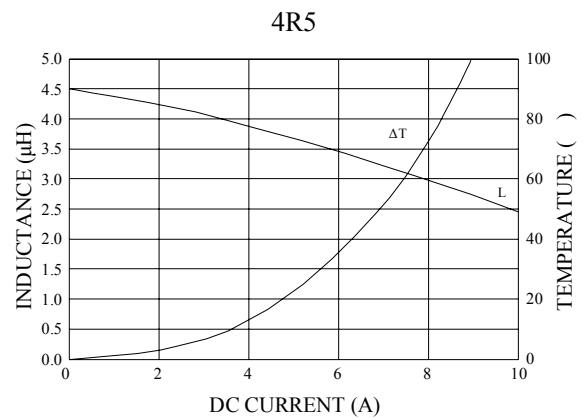
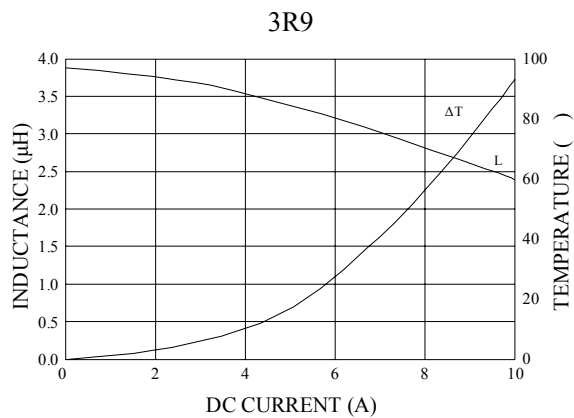
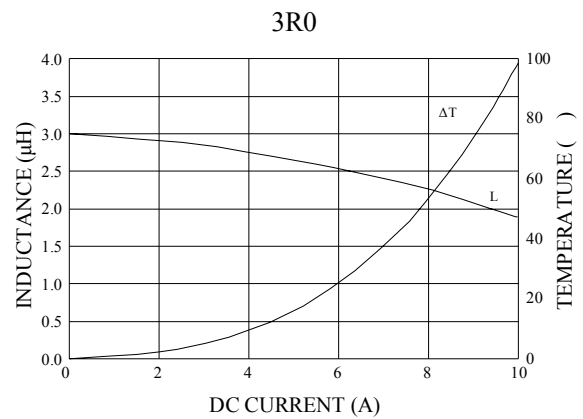
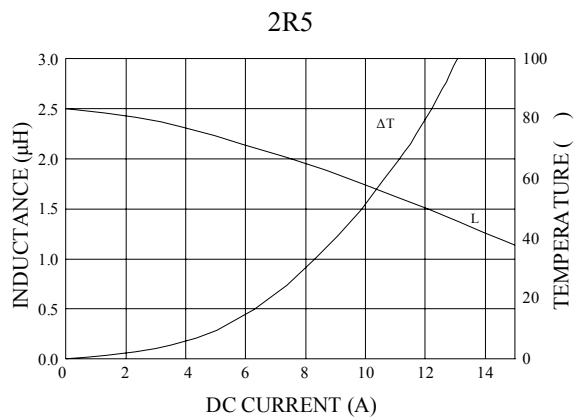
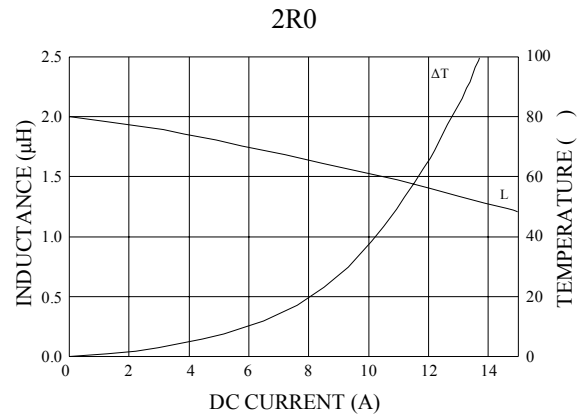
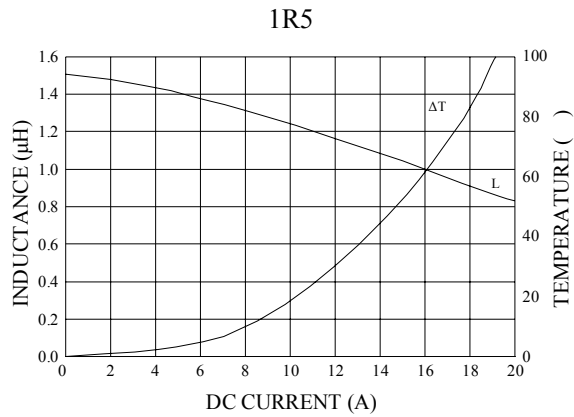
SPECIFICATION FOR APPROVAL

REF :

PAGE: 3

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	SP6045□□□□L□-□□□
		ABC'S ITEM No.	

@ Performance Graphs



AR-001A

SPECIFICATION FOR APPROVAL

REF :

PAGE: 4

PROD. NAME	SHIELDED SMD	ABC'S DWG No.	SP6045□□□□L□-□□□
	POWER INDUCTOR	ABC'S ITEM No.	

1. PACKAGING INFORMATION :

(1) Configuration

Carrier tape width : D

(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21±0.8	13±0.5	16	18 ⁺⁰	50 ⁻⁰	22.4

(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)
SP6045	1000	1,200	13 - 16	6,000	9.50	40 x 40 x 24

AR-001A

SPECIFICATION FOR APPROVAL

REF :

PAGE: 5

PROD.	SHIELDED SMD	ABC'S DWG No.	SP6045□□□□L□-□□□
NAME	POWER INDUCTOR	ABC'S ITEM No.	

. DWGING NUMBER EXPRESSION :

The diagram illustrates a 12-digit code structure. The digits are represented by boxes, with the first four boxes containing the characters 'S', 'P', '6', and '0'. The remaining eight boxes are empty. The code is divided into segments by vertical lines, and labels are connected to specific digits or groups of digits by horizontal lines:

- Type code:** Points to the first digit 'S'.
- Dimension code:** Points to the second digit 'P'.
- Electrical code:** Points to the third digit '6'.
- Tolerance code:** Points to the fourth digit '0'.
- Appendix code 1 : Classification:** Points to the fifth digit.
- Appendix code 2 : Package:** Points to the sixth digit.
- Reference code:** Points to the last three digits (ninth, tenth, and eleventh).

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)	1000 pcs	

AR-001A



SPECIFICATION FOR APPROVAL

REF :

PAGE: 6

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No. ABC'S ITEM No.	SP6045□□□□L□-□□□
. 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%	Room temp. 15 minutes → -25±2 30 minutes Room temp. 15 minutes → 85±2 30 minutes Total : 50 cycles	
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	

AR-001A

SPECIFICATION FOR APPROVAL

REF :

PAGE: 7

PROD.	SHIELDED SMD	ABC'S DWG No.	SP6045□□□□L□-□□□
NAME	POWER INDUCTOR	ABC'S ITEM No.	

. UL CARD :

OBMW2

January 7, 1988

Component-Magnet Wire

E104048 (S)

MITSUBISHI CABLE INDUSTRIES LTD

4-3 IKEJIRI ITAMI , HYOGO 664 JAPAN

Mtl

Coat Typ

ANSI

Temp

Dsg

BC

Oyercoat

Type

Class

EDW-R52

Medis

Ester-imide

—

155

Marking : Company name and type designation on package or reels.

See General Information Preceding These Recognitions.

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Report : January 5, 1988.

302279005

H7642

Underwriters Laboratories Inc.®

D11/0149909

AR-001A



千如電子集團
ABC ELECTRONICS GROUP.