

# SPECIFICATION FOR APPROVAL

Farnell

---

---

**DESCRIPTION** : CHOKE COIL

---

**PART NO** : APB105024046A-680MU

---

**DOCUMENT NO** : 0045

---

**VERSION** : 1.0

---

**CUSTOMER PART NO** : 74R9825

---

**DATE** : 2010.09.16

---

CUSTOMER APPROVAL CENTER		
APPROVED BY	CHECKED BY	INSPECTED BY



# SPECIFICATION FOR APPROVAL

CUSTOMER		REV NO	1.0
DESCRIPTION	CHOKE COIL	PAGE NO	1 of 8
PART NO	APB105024046A-680MU	DATE	2010.09.16

**HISTORY:**

Revision Date	Revision Descriptions	Approved	Revision
2010.09.16	NEW	Anthony Yan	1.0

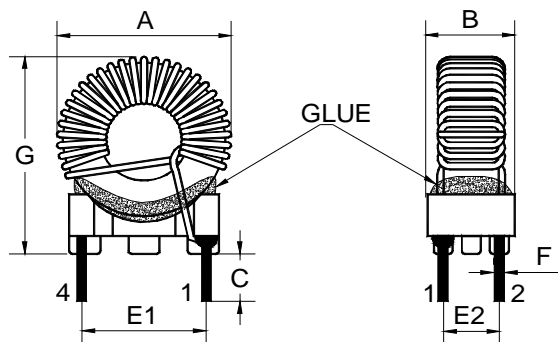
<b>APPROVED BY</b> Richard Wen	<b>CHECKED BY</b> Royi Luo	<b>DRAWN BY</b> Anthony Yan
-----------------------------------	-------------------------------	--------------------------------



# SPECIFICATION FOR APPROVAL

CUSTOMER	Farnell	REV NO	1.0
DESCRIPTION	CHOKE COIL	PAGE NO	2 of 8
PART NO	APB105024046A-680MU	DATE	2010.09.16

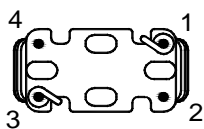
## 1.CONFIGURATIONS & DIMENSIONS:



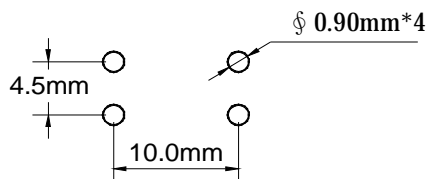
A	16.0	(Max)	mm
B	8.5	(Max)	mm
C	4.0	± 0.5	mm
E1	10.0	± 0.5	mm
E2	4.5	± 0.5	mm
F	Φ0.7	(Ref)	mm
G	18.0	(Max)	mm
H			mm

FRONT VIEW

SIDE VIEW



BOTTOM VIEW

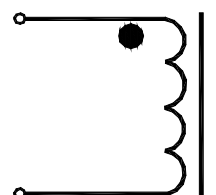


Suggest PCB Layout

## 2.ELECTRICAL CHARACTERISTICS:

TEST CONDITION	L(1-3)	68.0 uH ± 20%
10KHz/0.25V	L(1-3)	68.0 uH ± 20%
Ta=25°C	DCR(1-3)	90.0 mΩ (Max)
10KHz/0.25V Irms=1.0A	ΔT	temperature rise 40°C (Max.)

## 3.SCHEMATIC DIAGRAM



Note:

- (1).Wire UEFN/U (155°C) Φ0.50mm;
- (2).46TS(Ref) C.W

Operating temperature: -55°C ~ +130°C

## 4.TEST INSTRUMENTS

L : WK3260B  
 DCR:TH2512B  
 Lrms :WK3260B and WK3265B.

APPROVED BY Richard Wen	CHECKED BY Royi Luo	DRAWN BY Anthony Yan
----------------------------	------------------------	-------------------------



# SPECIFICATION FOR APPROVAL

<b>CUSTOMER</b>	Farnell	REV NO	1.0
<b>DESCRIPTION</b>	CHOKE COIL	PAGE NO	3 of 8
<b>PART NO</b>	APB105024046A-680MU	DATE	2010.09.16

## 5. TEST DATA FOR MECHANICAL

TEST ITEM	A	B	C	E1	E2	F	G	H	I	J
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SPEC	16.0  (Max)	8.5  (Max)	4.0  ±  0.5	10.0  ±  0.5	4.5  ±  0.5	Φ0.7  (Ref)	18.0  (Max)			
1	14.44	7.15	3.98	10.06	4.68	0.69	16.93			
2	14.42	7.12	4.24	10.04	4.62	0.67	16.78			
3	14.67	7.30	3.86	10.03	4.67	0.67	16.75			
4	14.60	7.09	4.02	10.02	4.53	0.68	16.92			
5	14.49	7.08	4.07	10.05	4.58	0.67	16.88			
6										
7										
8										
9										
10										
AVERAGE	14.52	7.15	4.03	10.04	4.62	0.68	16.85			

REMARK:

<b>APPROVED BY</b> Richard Wen	<b>CHECKED BY</b> Royi Luo	<b>DRAWN BY</b> Anthony Yan
-----------------------------------	-------------------------------	--------------------------------



# SPECIFICATION FOR APPROVAL

<b>CUSTOMER</b>	Farnell	<b>REV NO</b>	1.0
<b>DESCRIPTION</b>	CHOKE COIL	<b>PAGE NO</b>	4 of 8
<b>PART NO</b>	APB105024046A-680MU	<b>DATE</b>	2010.09.16

## 6. TEST DATA FOR ELECTRICAL

TEST ITEM	L(1-3) uH	DCR(1-3) mΩ	ΔT				
CONDITION	10KHz/0.2 5V	Ta=25°C	10KHz/0.25 V Irms=1.0A				
SPEC	68.0 ± 20%	90.0  (Max)	temperature rise 40°C (Max.)				
1	68.75	75.65	OK				
2	67.81	74.76	OK				
3	68.25	75.15	OK				
4	67.83	77.24	OK				
5	69.72	74.50	OK				
6							
7							
8							
9							
10							
AVERAGE	68.47	75.46	OK				

REMARK:

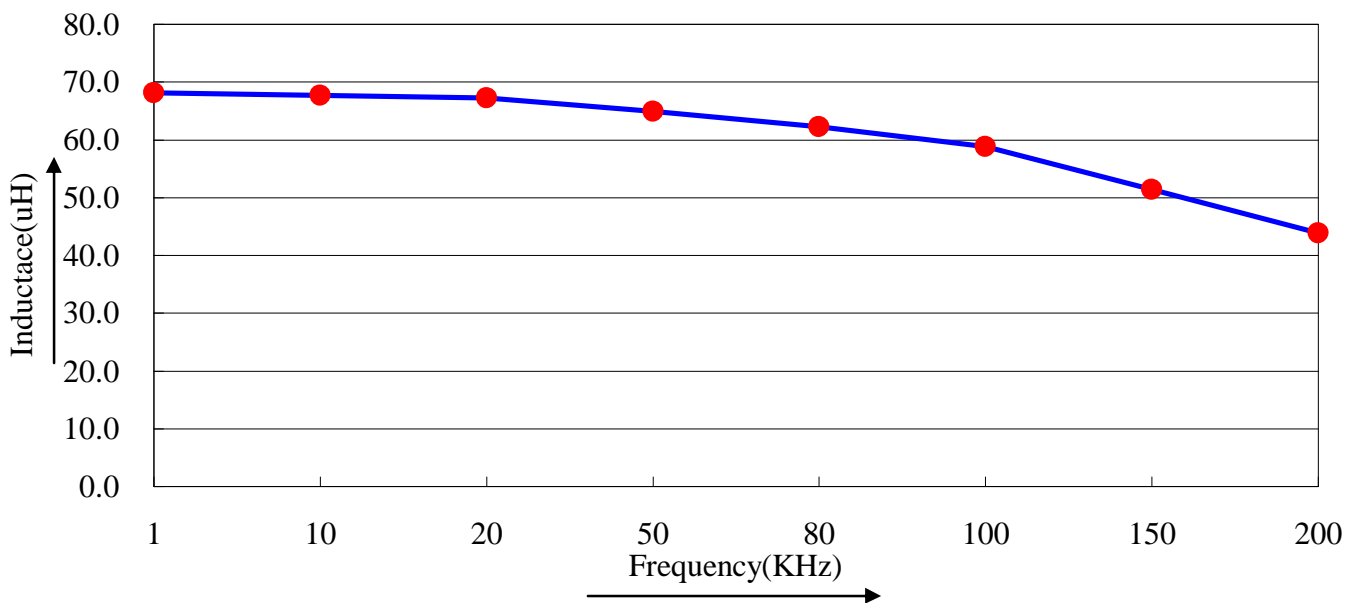
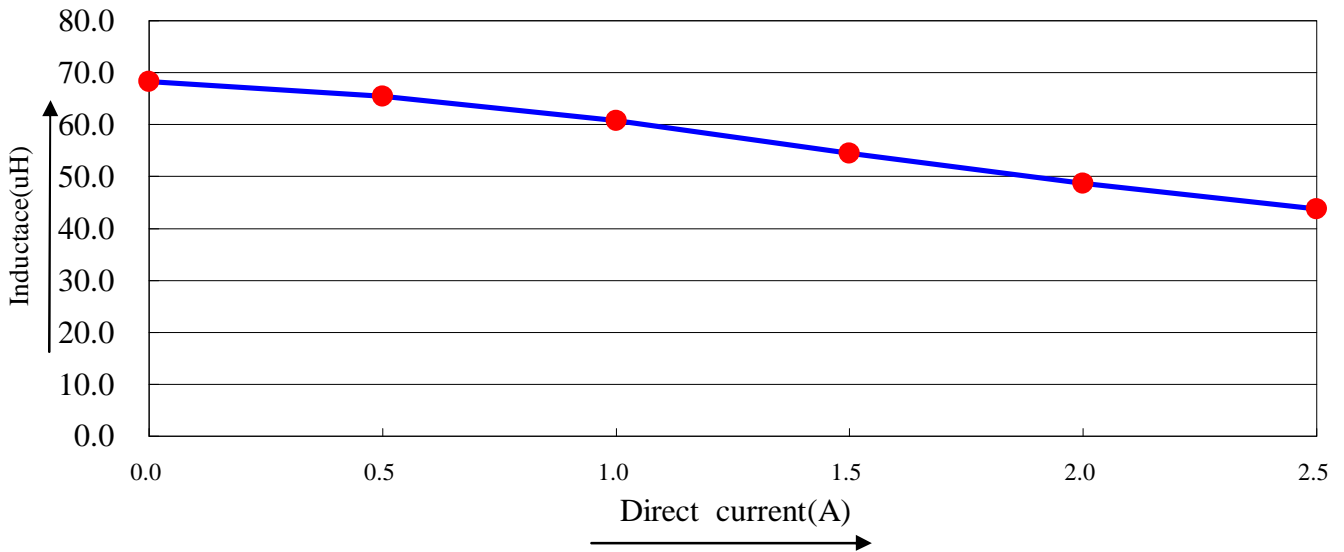
<b>APPROVED BY</b> Richard Wen	<b>CHECKED BY</b> Royi Luo	<b>DRAWN BY</b> Anthony Yan
-----------------------------------	-------------------------------	--------------------------------



# SPECIFICATION FOR APPROVAL

<b>CUSTOMER</b>	Farnell	<b>REV NO</b>	1.0
<b>DESCRIPTION</b>	CHOKE COIL	<b>PAGE NO</b>	5 of 8
<b>PART NO</b>	APB105024046A-680MU	<b>DATE</b>	2010.09.16

## 7.ELECTRIE CHARACTERISTICS.



**APPROVED BY**

Richard Wen

**CHECKED BY**

Royi Luo

**DRAWN BY**

Anthony Yan

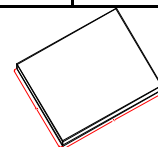


# SPECIFICATION FOR APPROVAL

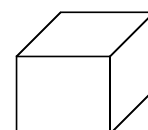
CUSTOMER	Farnell	REV NO	1.0
DESCRIPTION	CHOKE COIL	PAGE NO	6 of 8
PART NO	APB105024046A-680MU	DATE	2010.09.16

## 8.PACKAGE SPECIFICATION.(UNIT:mm)

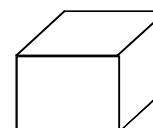
(1)Plastic tray



(2)Inner Carton



(3)Master Carton



1PCS/Case,50PCS/ tray.

Total:20 tray/Inner Carton

Master Carton=50PCS x 20tray=1000PCS

Quantity:Total 1000PCS

NO	PACKAGING PART	REFERENCE DIMENSION	MATERIAL	QUANTITY
1	Plastic tray	245 x 195 x 9.5(mm)	PVC	50PCS/ tray
2	Inner Carton	260 x 210 x 217(mm)	A=B	20 tray/Inner Carton
3	Master Carton	275 x 232 x 255(mm)	A=A	1Inner Carton/ Master Carton

3. N.W:4.50g/PCS TOTAL4.50Kg(APPROX),G.W:TOTAL5.50Kg(APPROX);

<b>APPROVED BY</b> Richard Wen	<b>CHECKED BY</b> Royi Luo	<b>DRAWN BY</b> Anthony Yan
-----------------------------------	-------------------------------	--------------------------------



# SPECIFICATION FOR APPROVAL

<b>CUSTOMER</b>	Farnell	REV NO	1.0
<b>DESCRIPTION</b>	CHOKER COIL	PAGE NO	7 of 8
<b>PART NO</b>	APB105024046A-680MU	DATE	2010.09.16

## 9.RELIABILITY TEST.

TEST ITEMS	SPECIFICATIONS	TEST METHOD AND REMARKS
Operating temperature range	-55°C ~+130°C	Including temperature rise due to self-generated heat
Storage Condition	Ambient Temp. : 0°C ~40°C Humidity : Below 70%RH	To maintain the solderability of terminal electrodes, care must be taken to control temperature and humidity in the storage area.
Moisture sensitivity	Appearance: No abnormality No damage DCR change: within ±5% Inductance change: within ±5%	According to J-STD-020B level 3 Test condition: 60°C 60% RH Test duration: 40hrs Recovery: 1 to 2hrs of recovery under the standard condition after the removal from the test chamber.
Solderability	All termination shall exhibit a continuous solder coating free from defects for a minimum of 95% of the surface area of any individual lead.	According to J-STD-002B Steam aging category: 97°C 98% RH Steam aging duration: 8hrs Solder: Lead-free solder Solder temperature : 260±5°C Dip time: 5 +0/-0.5 seconds

<b>APPROVED BY</b> Richard Wen	<b>CHECKED BY</b> Royi Luo	<b>DRAWN BY</b> Anthony Yan
-----------------------------------	-------------------------------	--------------------------------





# SPECIFICATION FOR APPROVAL

<b>CUSTOMER</b>	Farnell	<b>REV NO</b>	1.0
<b>DESCRIPTION</b>	CHOKE COIL	<b>PAGE NO</b>	8 of 8
<b>PART NO</b>	APB105024046A-680MU	<b>DATE</b>	2010.09.16

## 10.MATERIAL LIST

NO.	ITEM	MATERIAL DESCRIPTION	SUPPLIER	UL CARD NO.	REMARK
1	CORE	T50-75-TAF200 (RED/WHITE)	CURIE		Or equivalent
2	WIRE	Φ0.50mm UEFN/U (155°C)	PACIFIC	E201757	Or equivalent
3	SOLDER (Lead Free)	Sn99.3%/Cu0.7%	ZHONG SHI		Or equivalent
4	VERNISH	T-4260(a) / TX-111	TAI HU	E228349	Or equivalent
5	BASE	PB-025	PIN SHINE	E59481	Or equivalent
6	GLUE	TH320	TIANHUAN	E257593	Or equivalent

<b>APPROVED BY</b> Richard Wen	<b>CHECKED BY</b> Royi Luo	<b>DRAWN BY</b> Anthony Yan
-----------------------------------	-------------------------------	--------------------------------