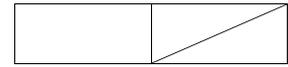
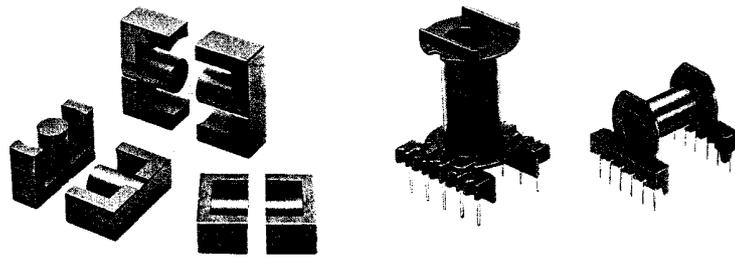


Vol:3(Rev.0)



Phenol Bobbin 材質 品質轉換

(PL對應)



KCE

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目次

- 1.
2. Phenol Bobbin
 - 2-1. ,
 - 2-2. (電食性)
 - 2-3. 가
 - 2-4. Solder
 - 2-5. (剛性) Creep
 - 2-6. UL1446 System
3.
 - 3-1 Plastic
 - 3-2 Plastic
 - 3-3 Plastic
 - 3-4
 - (1) Carton Box S₂-Gas
 - (2) Phenolic Bobbin
 - (3) Epoxy Bond
 - (4) Solder flux
 - (5) Rubber Cushion
 - 3-5 Image

1.

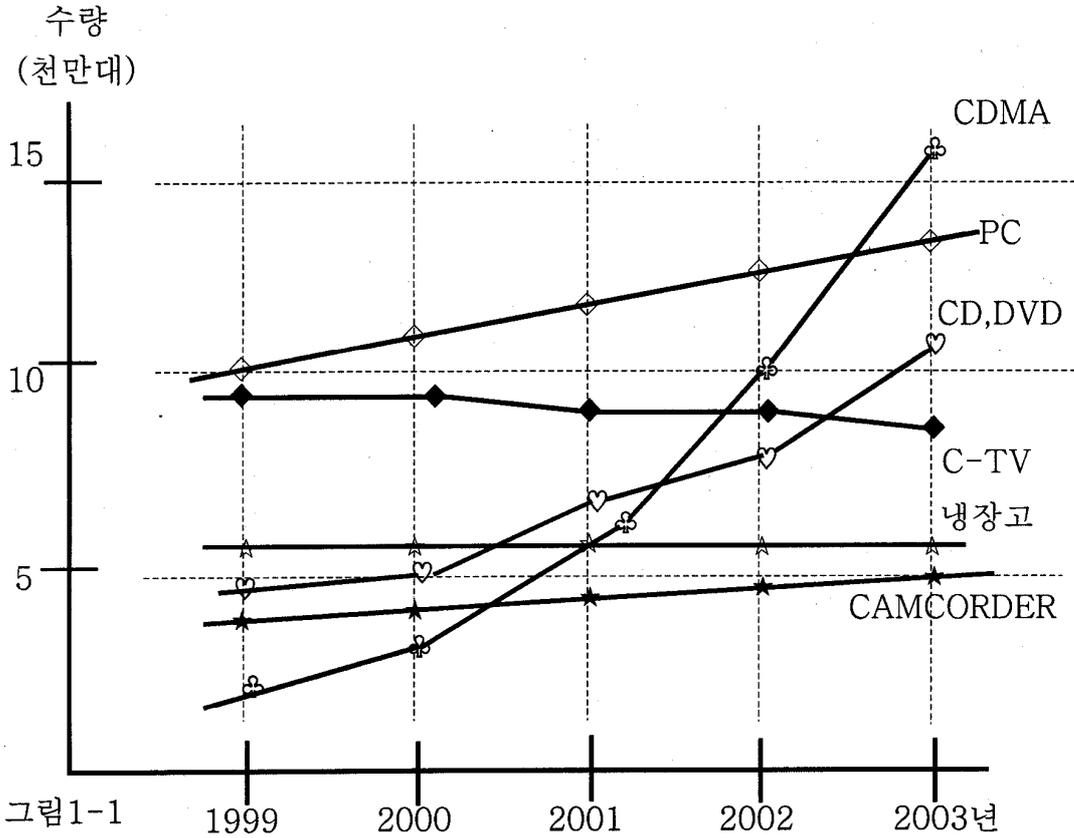
1960

TV,VCR

가

Note PC
가

Personal Mobile



Transformer,Coil

Phenol

Point

가

2.Phenol Bobbin,Base

2-1 (UL94V-0/0.7mm)

Switching Transistor

Core

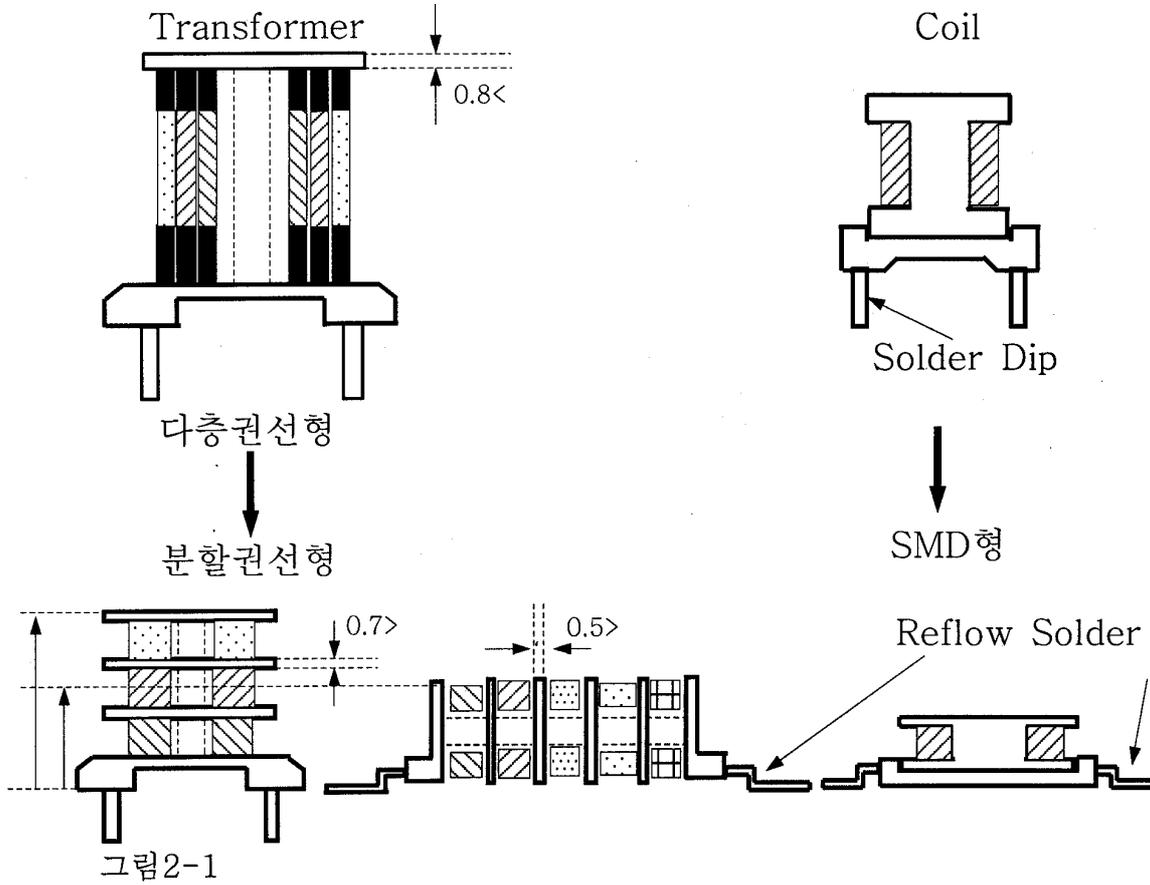
Switching

5 ~10

1/5~1/10

Trans

Bobbin 0.8mm
0.5mm 가



Coil SMD (Surface Mounting Device)
Base 0.3~0.4mm 가

가 94V-0
가 0.4mm

Solder

(浮動)

(電食性) 가 (PET,PBT,PA,LCP)

Creep

2-2 (電食性:Electro Chemical Corrosion)

Phenol resin

Phenol Resin

Ammonium鹽

Trans

Ammonium鹽

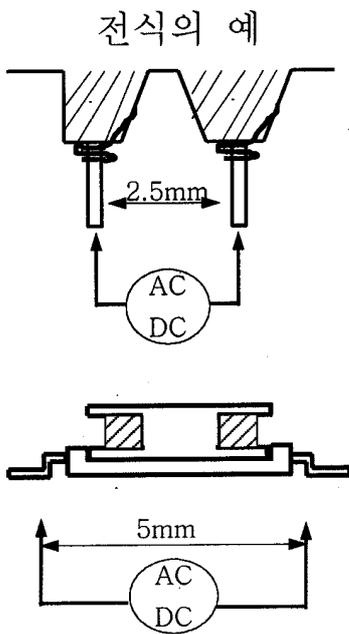
Solder Flux

(鹽素) Epoxy ,SMD

Amine 가 가

6

~3



MODEL

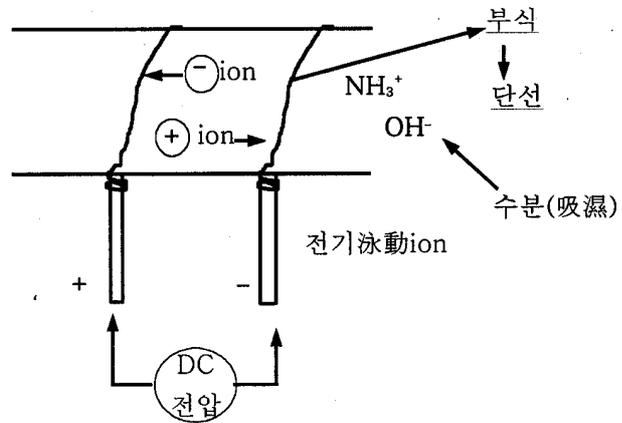


그림 2-2

Maker

.Phenol Powder
NA Grade(Non

Ammonium)

2-3.

가 (Thermo Setting Resin
Thermo Plastic Resin)

가

가

가

(B Stage)

가
(固化)

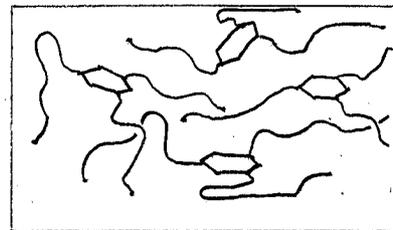
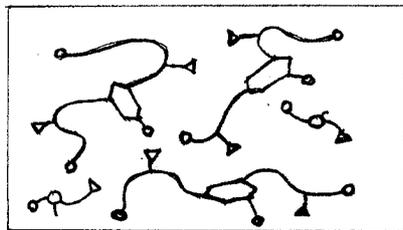
가

가 3
100°C

Filler(Glass Fiber,Silica)가

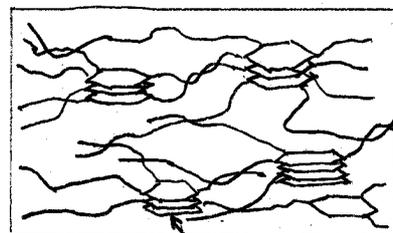
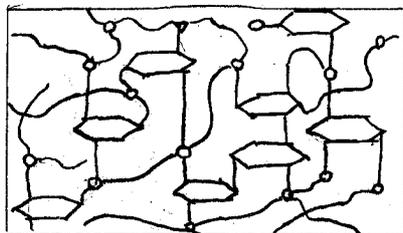
) Bobbin
Solder 가

HDT(가



고온(경화반응)

고온 유동
저온 고화



화학결합

결정화(結晶化)

그림2-3

2-4.Solder

Plastic

가

가

가

Wire

Bobbin

()

()

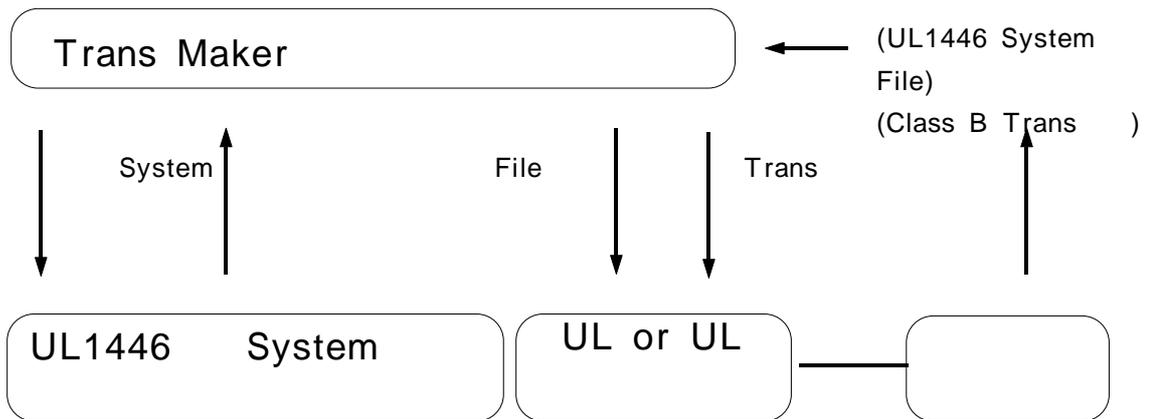
가

2-6.UL1446 System

가 UL(Underliter's Laboratory) 가

가 .
Set Maker가 가
Trans Coil 가 가 UL
UL Trans Coil Maker 가가
UL1446 System UL File
1/6 , 4~6 (1)
System
가 Trans Maker
Cost

Trans B-Class Process



3.

3-1Plastic

(1) :

(2) :

가

(3) :

3-2Plastic

(1)Plastic : , , (,),Gas, Creep ,
(競合劣化),Crack

(2) (弊害): , Gas, (), ,

3-3Plastic

(1) (現象)

(2)Plastic가 ,

(3) , (現象)
,가

3-4 : (腐蝕), (電蝕)

(1)Carton Box S₂-Gas

(a) : Carton Box
Line

(b) : Ag-S

(c) :Carton Box(Cellose Pulp) (亞硫
酸) Box
H₂SO₄,HSO₃가

(d) :Box (Shield Tube Test)
Polyethylene Bag , Gas

(2)Phenolic Bobbin

(a) :Phenol Bobbin Coil(Wire 0.07mm) Set
6 3

(b) :Phenol(Nobolac Type) Ammonium

(c) :Ammonium Coil DC
Wire ()

(d) :Phenol-Ammonium Less
No Ammonium(Resol Type Phenol)

(3)Epoxy Bond

(a) : Epoxy Bond Transformer Wire
Bobbin PBT

(b) :Epoxy Bond (Polyamide)

(c) :Polyamide가 ion
Epoxy

(d) : 가 가
Rule

(4)Silicon Bond

(a) :Pulse Trans Wire Silicon
Bond Wire가

(b) :Silicon Ammonium

(c) :Silicon Ammonium

(d) :Silicone 4 가
Alchol Type
(: Ammonium Oxim Alchol Hidrogen)

(5)Solder Flux

(a) :PCB Fine Line()

(b) :PCB Glass Epoxy Line DC가
가 Flux

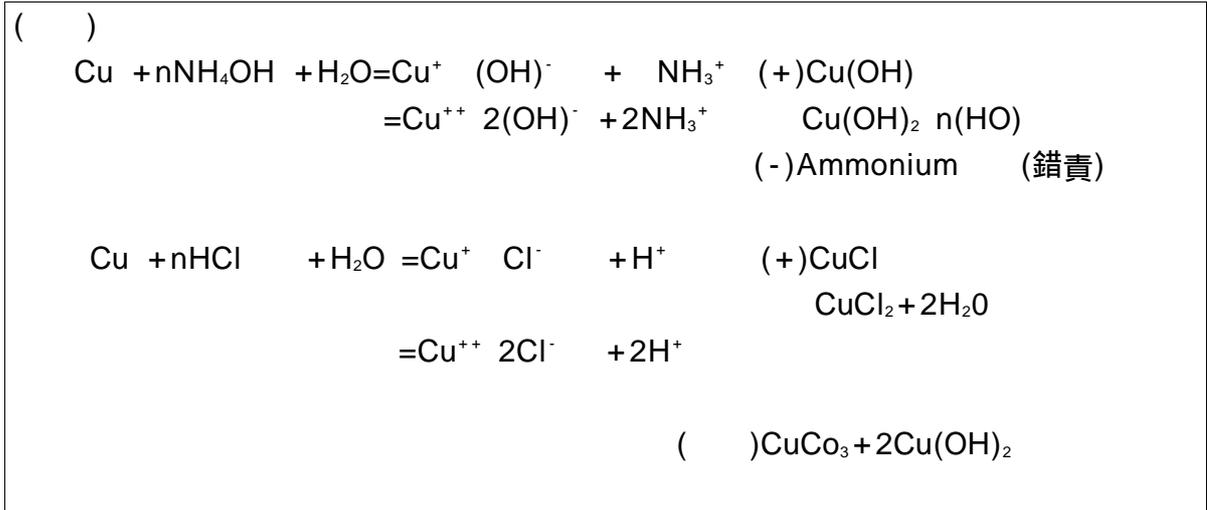
(c) :Flux Cl()가 Ion Cu line
Pattern line

(d) :Flux 가

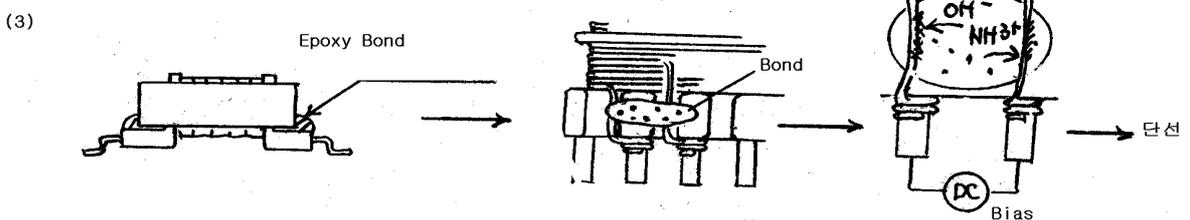
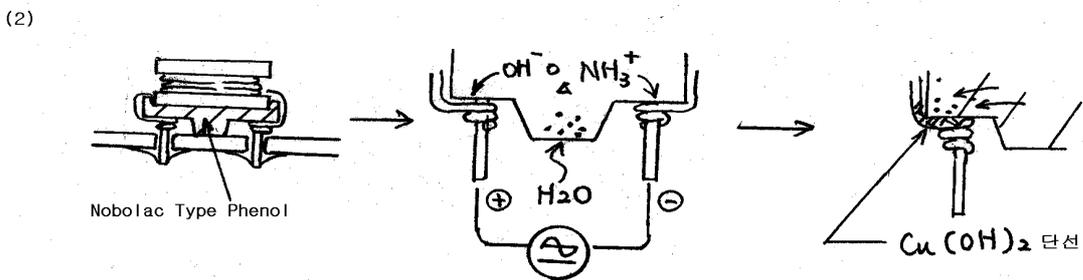
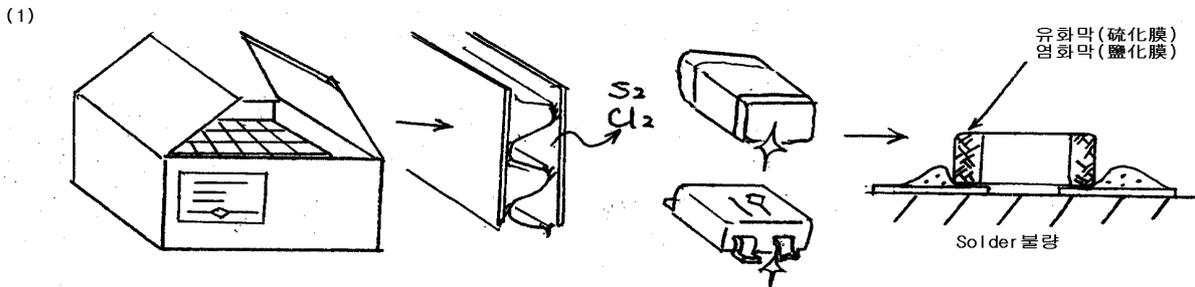
(6)Rubber Cushion

(a) : Rubber Cushion,Rubber
Bond Rubber가

- (b) :Chloroprene Rubber가 100°C 가 Cl gas
- (c) : Cl Gas
- (d) :Rubber Cushion Chloroprene() EPDM(Ethylene Propylene Rubber)



3-5 Image



Phenol Bobbin

(PL)

:
:
:

()

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2 488-16

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:

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*

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