

NOTE:

1.MATERIAL:

HOUSING:LCP(UL94V-0)
ACTUATOR:LCP(UL94V-0)
TERMINAL:PHOSPHOR BRONZE
LEG:PHOSPHOR BRONZE

3.RATING:

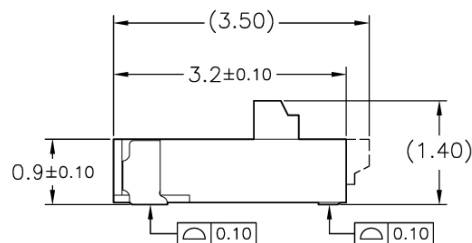
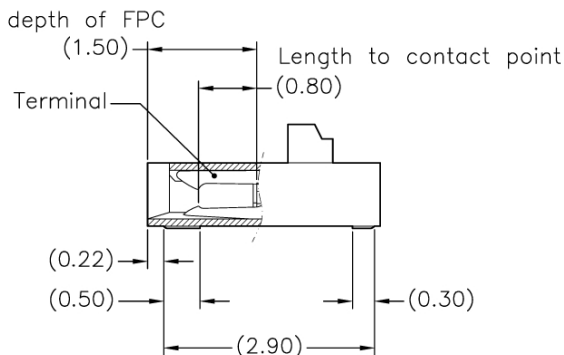
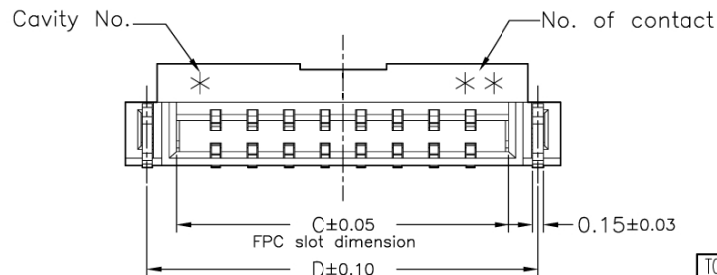
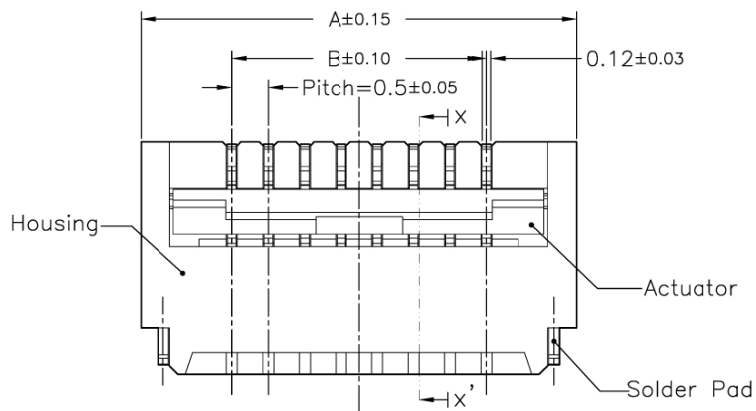
OPERATING VOLTAGE:50Vrms AC
CURRENT RATING:0.5A
OPERATING TEMPERATURE:-55°C ~ +85°C
OPERATING HUMIDITY RANGE:RELATIVE HUMIDITY 90% MAX
(NO CONDENSATION)

STORAGE TEMPERATURE RANGE:-10°C ~ +50°C
STORAGE HUMIDITY RANGE:RELATIVE HUMIDITY 90% MAX
(NO CONDENSATION)

2.PART NO.:

BL509-xxG31-TAHx
0: Cable t=0.20mm
ACTUATOR COLOR: BLUE
1: Cable t=0.30mm
ACTUATOR COLOR: BLACK
2: Cable t=0.12mm
ACTUATOR COLOR: YELLOW

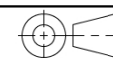
SERIES
Halogen free
PACKAGE
Right angle(Dual contact type)
Back flip type
1u"~3u" GOLD FLASH
NO. OF CONTACTS



REV.	ECO NO.	DATE	SIGN	DESCRIPTION
E	ECN100315	20100414	Johnny	CREAT. CARTON DRAWING & ACTUATOR COLOR
F	ECN100507	20100507	Johnny	Modify drawing
G	ECN100805	20100827	Eason	Modify PCB Layout dim.

No. of Contacts	Part Number	DIM. A	DIM. B	DIM. C	DIM. D
04	BL509-04G31	4.0	1.5	2.57	3.38
05	BL509-05G31	4.5	2.0	3.07	3.88
06	BL509-06G31	5.0	2.5	3.57	4.38
07	BL509-07G31	5.5	3.0	4.07	4.88
08	BL509-08G31	6.0	3.5	4.57	5.38
09	BL509-09G31	6.5	4.0	5.07	5.88
10	BL509-10G31	7.0	4.5	5.57	6.38
11	BL509-11G31	7.5	5.0	6.07	6.88
12	BL509-12G31	8.0	5.5	6.57	7.38
13	BL509-13G31	8.5	6.0	7.07	7.88
14	BL509-14G31	9.0	6.5	7.57	8.38
15	BL509-15G31	9.5	7.0	8.07	8.88
16	BL509-16G31	10.0	7.5	8.57	9.38
17	BL509-17G31	10.5	8.0	9.07	9.88
18	BL509-18G31	11.0	8.5	9.57	10.38
19	BL509-19G31	11.5	9.0	10.07	10.88
20	BL509-20G31	12.0	9.5	10.57	11.38
21	BL509-21G31	12.5	10.0	11.07	11.88
22	BL509-22G31	13.0	10.5	11.57	12.38
23	BL509-23G31	13.5	11.0	12.07	12.88
24	BL509-24G31	14.0	11.5	12.57	13.38
25	BL509-25G31	14.5	12.0	13.07	13.88
26	BL509-26G31	15.0	12.5	13.57	14.38
27	BL509-27G31	15.5	13.0	14.07	14.88
28	BL509-28G31	16.0	13.5	14.57	15.38
29	BL509-29G31	16.5	14.0	15.07	15.88
30	BL509-30G31	17.0	14.5	15.57	16.38
31	BL509-31G31	17.5	15.0	16.07	16.88
32	BL509-32G31	18.0	15.5	16.57	17.38
33	BL509-33G31	18.5	16.0	17.07	17.88
34	BL509-34G31	19.0	16.5	17.57	18.38
35	BL509-35G31	19.5	17.0	18.07	18.88
36	BL509-36G31	20.0	17.5	18.57	19.38
37	BL509-37G31	20.5	18.0	19.07	19.88
38	BL509-38G31	21.0	18.5	19.57	20.38
39	BL509-39G31	21.5	19.0	20.07	20.88
40	BL509-40G31	22.0	19.5	20.57	21.38
41	BL509-41G31	22.5	20.0	21.07	21.88
42	BL509-42G31	23.0	20.5	21.57	22.38
43	BL509-43G31	23.5	21.0	22.07	22.88
44	BL509-44G31	24.0	21.5	22.57	23.38
45	BL509-45G31	24.5	22.0	23.07	23.88
46	BL509-46G31	25.0	22.5	23.57	24.38
47	BL509-47G31	25.5	23.0	24.07	24.88
48	BL509-48G31	26.0	23.5	24.57	25.38
49	BL509-49G31	26.5	24.0	25.07	25.88
50	BL509-50G31	27.0	24.5	25.57	26.38

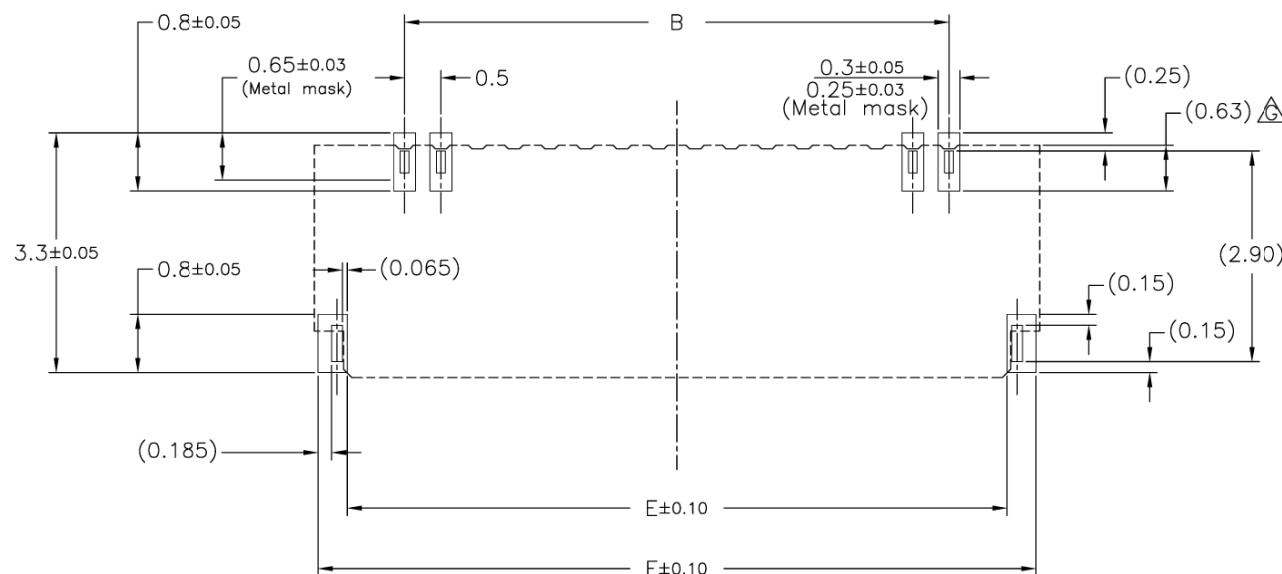
TOLERANCE UNLESS SPECIFIED		SHEET 1/5	DR. BY Eason 08/27'10	MATERIAL See Note 1.
LINEAR	ANGLE			
X XX	X° XX	SCALE 10/1	CHK. BY Robbie 08/27'10	FINISH See Note 2.
XX XX	X° XX			
XXXXX	XX° XX	UNIT mm	APP. BY Robbie 08/27'10	PART NO. See Note 2.



TITLE	0.5 Pitch, H=0.9mm FPC Conn.
DWG NO.	BL509-xxG31-TAHx

REV.	ECO NO.	DATE	SIGN	DESCRIPTION
E	ECN100315	20100414	Johnny	CREAT. CARTON DRAWING & ACTUATOR COLOR
F	ECN100507	20100507	Johnny	Modify drawing
G	ECN100805	20100827	Eason	Modify PCB Layout dim.

Recommended metal mask thickness: $t=0.1\text{mm}$

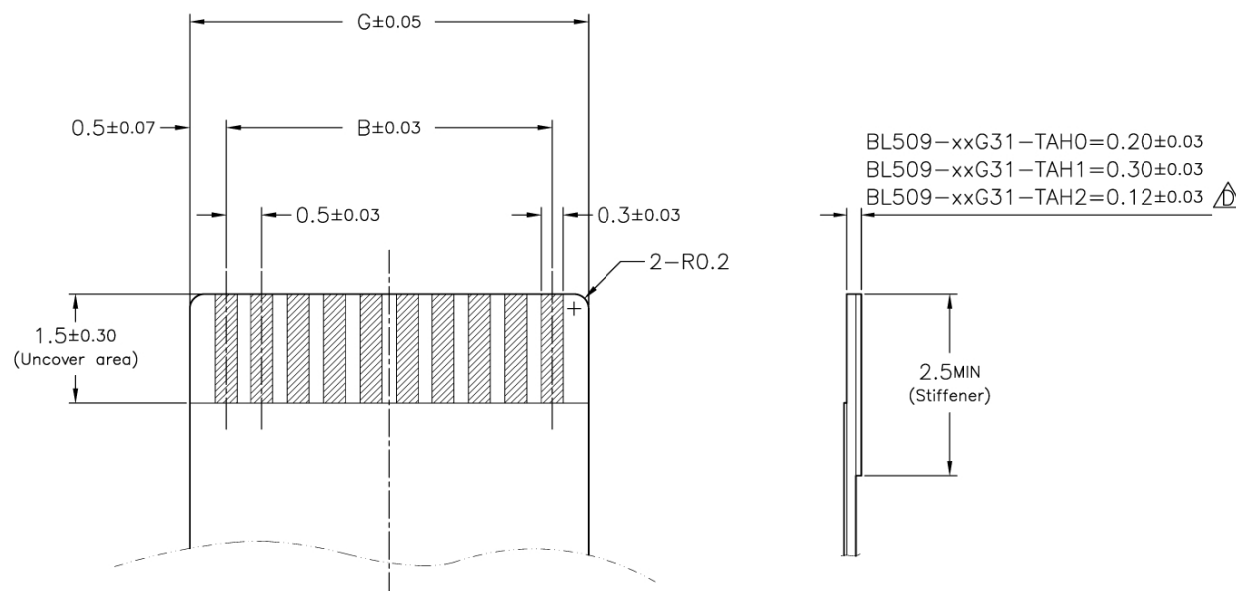


↑
FPC/FFC INSERT DIRECTION
PCB Layout

No. of Contacts	Part Number	DIM. B	DIM. E	DIM. F
04	BL509-04G31	1.5	3.1	3.9
05	BL509-05G31	2.0	3.6	4.4
06	BL509-06G31	2.5	4.1	4.9
07	BL509-07G31	3.0	4.6	5.4
08	BL509-08G31	3.5	5.1	5.9
09	BL509-09G31	4.0	5.6	6.4
10	BL509-10G31	4.5	6.1	6.9
11	BL509-11G31	5.0	6.6	7.4
12	BL509-12G31	5.5	7.1	7.9
13	BL509-13G31	6.0	7.6	8.4
14	BL509-14G31	6.5	8.1	8.9
15	BL509-15G31	7.0	8.6	9.4
16	BL509-16G31	7.5	9.1	9.9
17	BL509-17G31	8.0	9.6	10.4
18	BL509-18G31	8.5	10.1	10.9
19	BL509-19G31	9.0	10.6	11.4
20	BL509-20G31	9.5	11.1	11.9
21	BL509-21G31	10.0	11.6	12.4
22	BL509-22G31	10.5	12.1	12.9
23	BL509-23G31	11.0	12.6	13.4
24	BL509-24G31	11.5	13.1	13.9
25	BL509-25G31	12.0	13.6	14.4
26	BL509-26G31	12.5	14.1	14.9
27	BL509-27G31	13.0	14.6	15.4
28	BL509-28G31	13.5	15.1	15.9
29	BL509-29G31	14.0	15.6	16.4
30	BL509-30G31	14.5	16.1	16.9
31	BL509-31G31	15.0	16.6	17.4
32	BL509-32G31	15.5	17.1	17.9
33	BL509-33G31	16.0	17.6	18.4
34	BL509-34G31	16.5	18.1	18.9
35	BL509-35G31	17.0	18.6	19.4
36	BL509-36G31	17.5	19.1	19.9
37	BL509-37G31	18.0	19.6	20.4
38	BL509-38G31	18.5	20.1	20.9
39	BL509-39G31	19.0	20.6	21.4
40	BL509-40G31	19.5	21.1	21.9
41	BL509-41G31	20.0	21.6	22.4
42	BL509-42G31	20.5	22.1	22.9
43	BL509-43G31	21.0	22.6	23.4
44	BL509-44G31	21.5	23.1	23.9
45	BL509-45G31	22.0	23.6	24.4
46	BL509-46G31	22.5	24.1	24.9
47	BL509-47G31	23.0	24.6	25.4
48	BL509-48G31	23.5	25.1	25.9
49	BL509-49G31	24.0	25.6	26.4
50	BL509-50G31	24.5	26.1	26.9

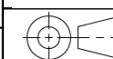
TOLERANCE UNLESS SPECIFIED	SHEET 2/5	DR. BY Eason 08/27'10	MATERIAL		TITLE 0.5 Pitch, H=0.9mm FPC Conn.
LINEAR	ANGLE	SCALE 1/10	CHK. BY Robbie 08/27'10		
XX XX	X° XX	UNIT mm	APP. BY Robbie 08/27'10		
XXXXX	XX° XX		PART NO.		
				DWG NO.	BL509-xxG31-TAHx

REV.	ECO NO.	DATE	SIGN	DESCRIPTION
E	ECN100315	20100414	Johnny	CREAT CARTON DRAWING & ACTUATOR COLOR
F	ECN100507	20100507	Johnny	Modify drawing
G	ECN100805	20100827	Eason	Modify PCB Layout dim.



No.of Contacts	Part Number	DIM. B	DIM. G
04	BL509-04G31	1.5	2.5
05	BL509-05G31	2.0	3.0
06	BL509-06G31	2.5	3.5
07	BL509-07G31	3.0	4.0
08	BL509-08G31	3.5	4.5
09	BL509-09G31	4.0	5.0
10	BL509-10G31	4.5	5.5
11	BL509-11G31	5.0	6.0
12	BL509-12G31	5.5	6.5
13	BL509-13G31	6.0	7.0
14	BL509-14G31	6.5	7.5
15	BL509-15G31	7.0	8.0
16	BL509-16G31	7.5	8.5
17	BL509-17G31	8.0	9.0
18	BL509-18G31	8.5	9.5
19	BL509-19G31	9.0	10.0
20	BL509-20G31	9.5	10.5
21	BL509-21G31	10.0	11.0
22	BL509-22G31	10.5	11.5
23	BL509-23G31	11.0	12.0
24	BL509-24G31	11.5	12.5
25	BL509-25G31	12.0	13.0
26	BL509-26G31	12.5	13.5
27	BL509-27G31	13.0	14.0
28	BL509-28G31	13.5	14.5
29	BL509-29G31	14.0	15.0
30	BL509-30G31	14.5	15.5
31	BL509-31G31	15.0	16.0
32	BL509-32G31	15.5	16.5
33	BL509-33G31	16.0	17.0
34	BL509-34G31	16.5	17.5
35	BL509-35G31	17.0	18.0
36	BL509-36G31	17.5	18.5
37	BL509-37G31	18.0	19.0
38	BL509-38G31	18.5	19.5
39	BL509-39G31	19.0	20.0
40	BL509-40G31	19.5	20.5
41	BL509-41G31	20.0	21.0
42	BL509-42G31	20.5	21.5
43	BL509-43G31	21.0	22.0
44	BL509-44G31	21.5	22.5
45	BL509-45G31	22.0	23.0
46	BL509-46G31	22.5	23.5
47	BL509-47G31	23.0	24.0
48	BL509-48G31	23.5	24.5
49	BL509-49G31	24.0	25.0
50	BL509-50G31	24.5	25.5

TOLERANCE UNLESS SPECIFIED		SHEET 3/5	DR. BY Eason 08/27'10	MATERIAL	
LINEAR	ANGLE				
$\times$ XX	$\times^{\circ}$ XX	SCALE 1/10	CHK. BY Robbie 08/27'10	FINISH	
XX XX	$\times^{\circ}$ XX				
XXXXX	XX XX	UNIT mm	APP. BY Robbie 08/27'10	PART NO.	



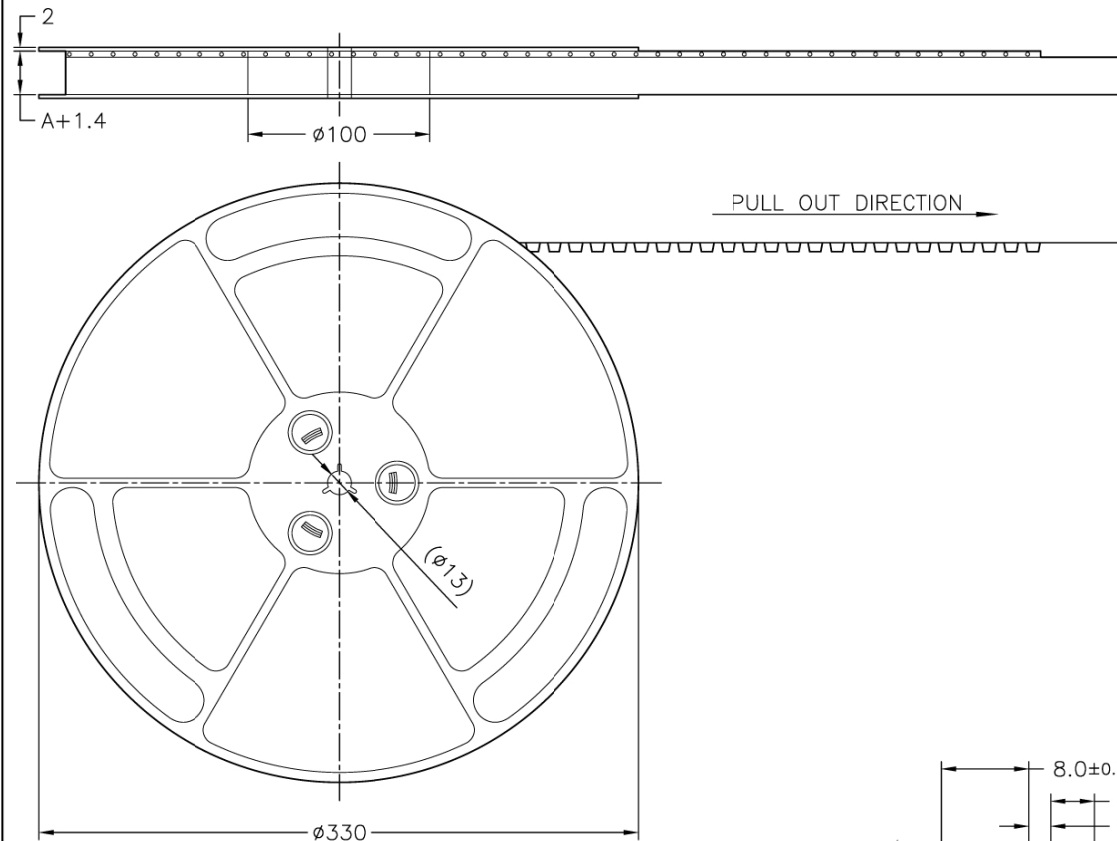
TITLE	0.5 Pitch,H=0.9mm FPC Conn.
DWG NO.	BL509-xxG31-TAHx

本部品不含有環境管理物質規定之有害物質

[MANAGEMENT REGULATIONS FOR THE RESTRICTIVELY-USED SUBSTANCES INCLUDED IN PARTS AND DEVICES]

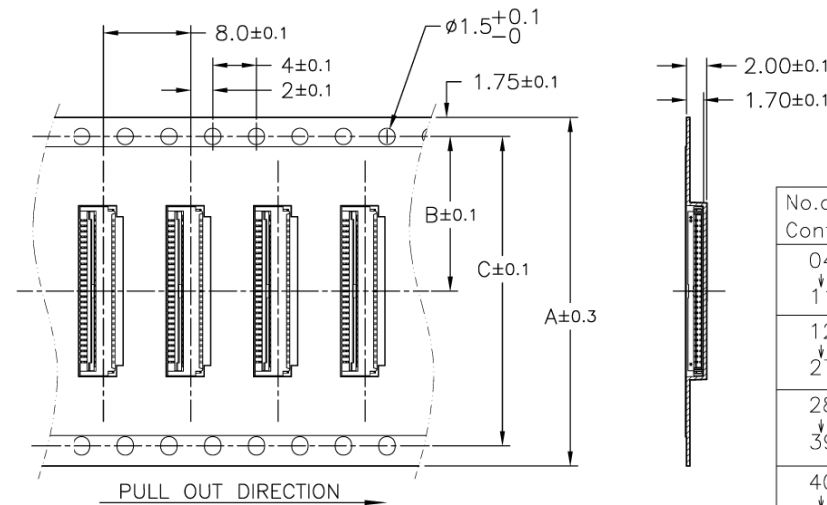
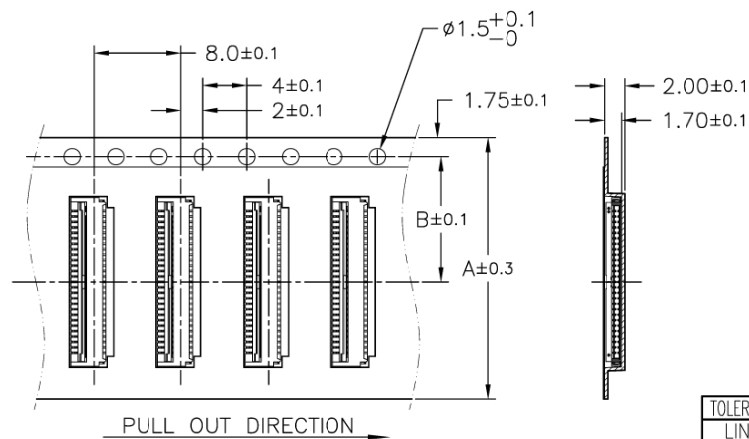
EMBOSED TAPE PACKING BL509 SERIES RIGHT ANGLE TYPE

REV.	ECO NO.	DATE	SIGN	DESCRIPTION
E	ECN100315	20100414	Johnny	CREAT CARTON DRAWING & ACTUATOR COLOR
F	ECN100507	20100507	Johnny	Modify drawing
G	ECN100805	20100827	Eason	Modify PCB Layout dim.



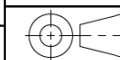
Note:

- 1.10 sprocket hole pitch cumulative tolerance ± 0.2
2. Carrier camber is within 1 mm in 250mm.
3. Material : Black Conductive Polystyrene Alloy.
4. All dimensions meet EIA-481-C requirements.
5. Thickness : 0.3 ± 0.05 mm.
6. Component load per 13" reel : 4500pcs. $\triangle$
7. For tape width (dimension A) 16 and 24mm a pilot hole is provided on one side.
For tape width (dimension A) 32 and 44mm pilot holes are provided on both sides.



No. of Contacts	No. of Contacts	DIM. A	DIM. B	DIM. C
04 ↓ 11	BL509-04G31 BL509-11G31	16	7.5	—
12 ↓ 27	BL509-12G31 BL509-27G31	24	11.5	—
28 ↓ 39	BL509-28G31 BL509-39G31	32	14.2	28.4
40 ↓ 50	BL509-40G31 BL509-50G31	44	20.2	40.4

TOLERANCE UNLESS SPECIFIED		SHEET 4/5	DR. BY Eason 08/27'10	MATERIAL See Note 3.
LINEAR	ANGLE	SCALE	CHK. BY Robbie 08/27'10	FINISH
X XX	X° XX	UNIT mm	APP. BY Robbie 08/27'10	PART NO.
XX XX	X° XX			
XXXXX	XX° XX			

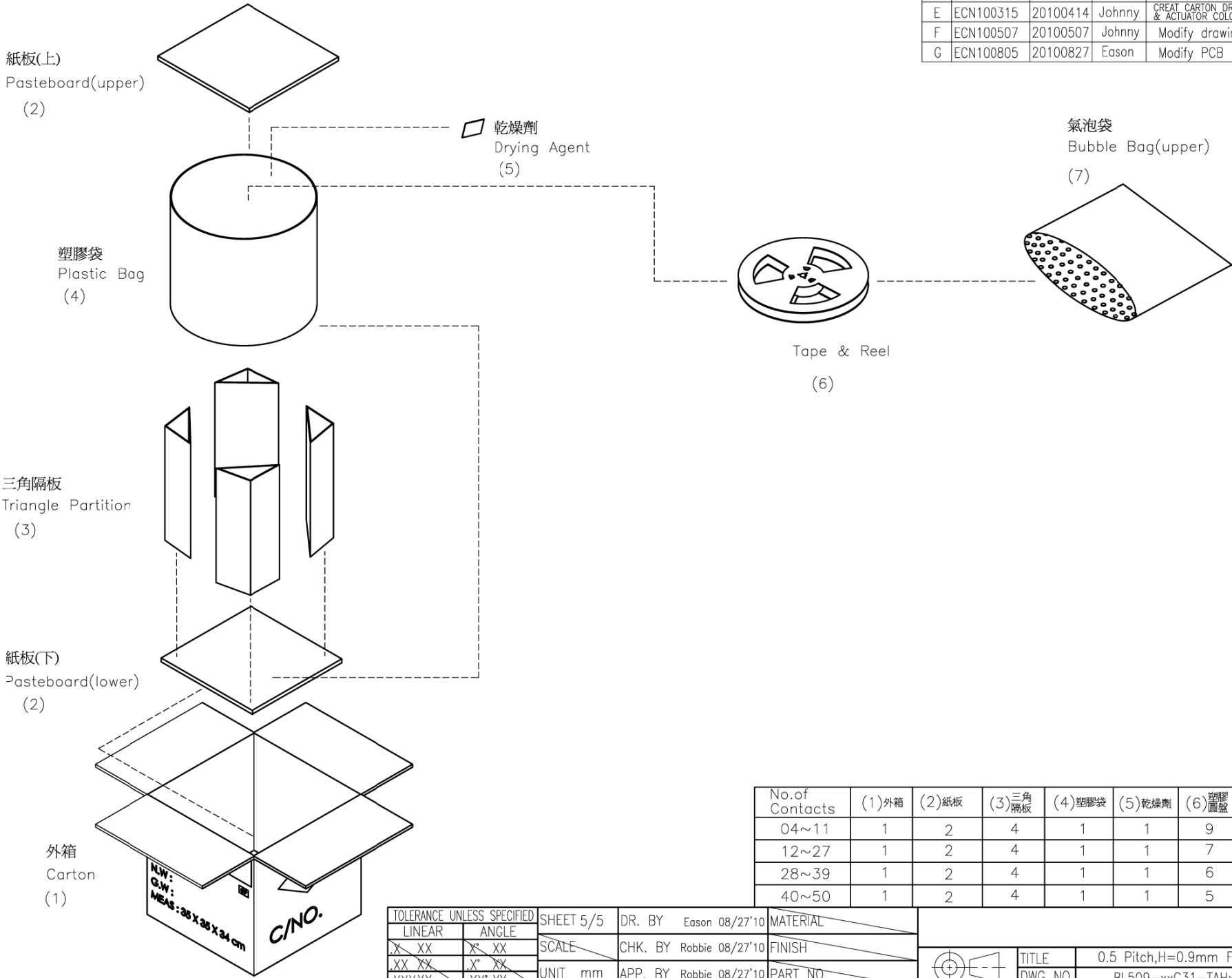


TITLE	0.5 Pitch, H=0.9mm FPC Conn.
DWG NO.	BL509-xxG31-TAHx

本部品不含有環境管理物質規定之有害物質

[MANAGEMENT REGULATIONS FOR THE RESTRICTIVELY-USED SUBSTANCES INCLUDED IN PARTS AND DEVICES]

REV.	ECO NO.	DATE	SIGN	DESCRIPTION
E	ECN100315	20100414	Johnny	CREAT CARTON DRAWING & ACTUATOR COLOR
F	ECN100507	20100507	Johnny	Modify drawing
G	ECN100805	20100827	Eason	Modify PCB Layout dim.



No.of Contacts	(1)外箱	(2)紙板	(3)三角 隔板	(4)塑膠袋	(5)乾燥劑	(6)塑膠 圓盤	(7)氣泡袋
04~11	1	2	4	1	1	9	9
12~27	1	2	4	1	1	7	7
28~39	1	2	4	1	1	6	6
40~50	1	2	4	1	1	5	5

TOLERANCE UNLESS SPECIFIED		SHEET 5/5	DR. BY Eason 08/27'10	MATERIAL			
LINEAR	ANGLE			FINISH			
X XX	X° XX	SCALE	CHK. BY Robbie 08/27'10				
XX XX	X° XX	UNIT mm	APP. BY Robbie 08/27'10	PART NO.			
XXXXX	XX° XX					TITLE	0.5 Pitch,H=0.9mm FPC Conn.
						DWG NO.	BL509-xxG31-TAHx