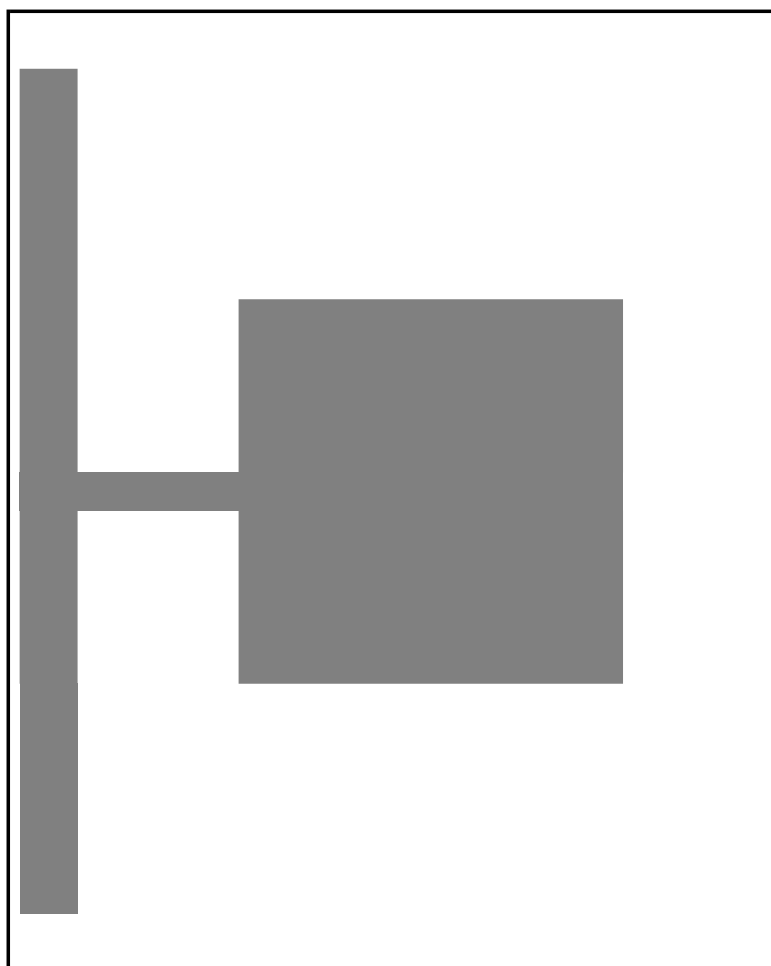


TEST CELL



1. CELL**▪INDICATION & MARK**

①TEST CELL	.....	1
②DIRECTION & ANGLE	.....	1
③CELL GAP	.....	1
④CELL TYPE	.....	2~5
⑤VIEWING AREA	.....	6
⑥GLASS THICKNESS	.....	6
⑦GLASS MATERIAL	.....	6
⑧ITO RESISTIVITY	.....	6
⑨ITO INSULATION	.....	6
⑩SEALING FORM	.....	7
⑪SEAL MATERIAL	.....	8
⑫CELL GAP ALLOWANCE	.....	8
⑬EXCEPT STANDARD	.....	8

▪DIRECTION CHART

A-type	.....	9
B-type	.....	10
D-type	.....	11
FF(88)-type	.....	12
DM(88)-type	.....	13

The expiration of EHC cell is 6 months.

1. CELL

•INDICATION & MARK

INDICATION: KS RO - 02 / A 2 11 P 1 N S S 05 X

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

① 【KS】 MEANS TEST CELL

② 【DIRECTION】 【ANGLE】

MARK	◆DIRECTION	◇ANGLE
RT	HORIZONTAL	LEFT 90°
RS	HORIZONTAL	RIGHT 90°
RP	HORIZONTAL	180°
RO	HORIZONTAL	360°
RI	HORIZONTAL	ONLY LOW
RZ	HORIZONTAL	NA
RX	HORIZONTAL	OPTIONAL
SZ	NA	NA
HH	VERTICAL	NA

◆ HORIZONTAL(POLYIMIDE)

- LX-1400 (HD MicroSystems)
- THICKNESS : WITHIN 200 Å

◆ VERTICAL(SURFACE-ACTIVE AGENT)

- CETYL-TRIMETHYL-AMMONIUM-BROMIDE

◆ FILM METHOD

- SPIN COURT

◇ RUBBING ROLL

- FIBER : POLYESTER
- FIBER LENGTH : 8mm
- ROLL DIAMETER : 58mm

◇ RUBBING CONDITION

- ROTATIONAL SPEED : 600rpm
- STAGE SPEED : 30mm/sec
- ROUND TRIP FREQUENCY : 3 TIMES

◇ RUBBING DIRECTION

- REFERENCE PAGE 9~13

③ 【CELL GAP】

MARK	CELL GAP
02	2 μ m
03	3 μ m
04	4 μ m
05	5 μ m
06	6 μ m
07	7 μ m
08	8 μ m
09	9 μ m
10	10 μ m
15	15 μ m
25	25 μ m
50	50 μ m

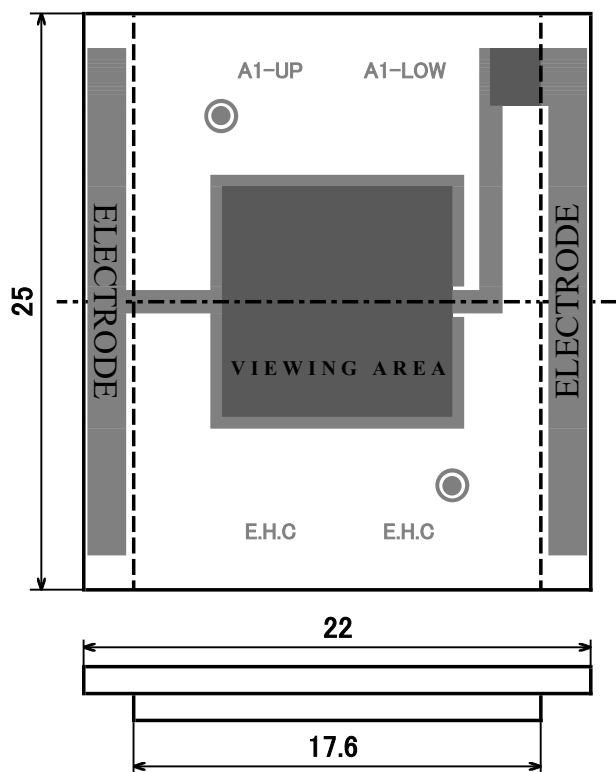
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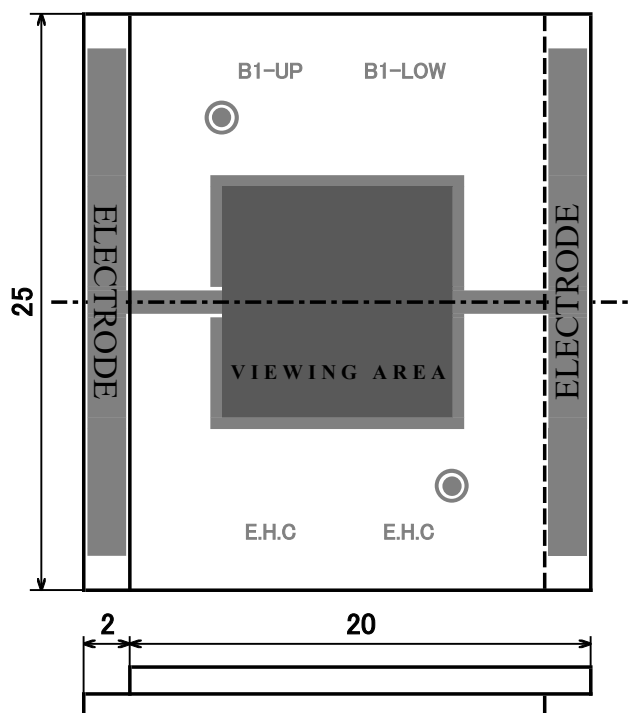
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

④ 【CELL TYPE】

A-type



B-type

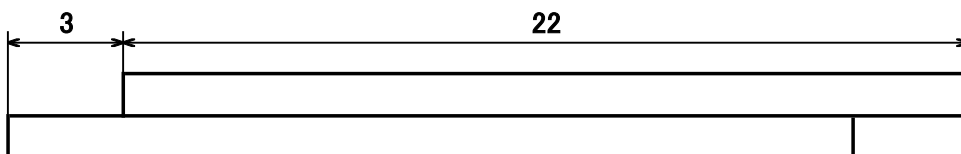
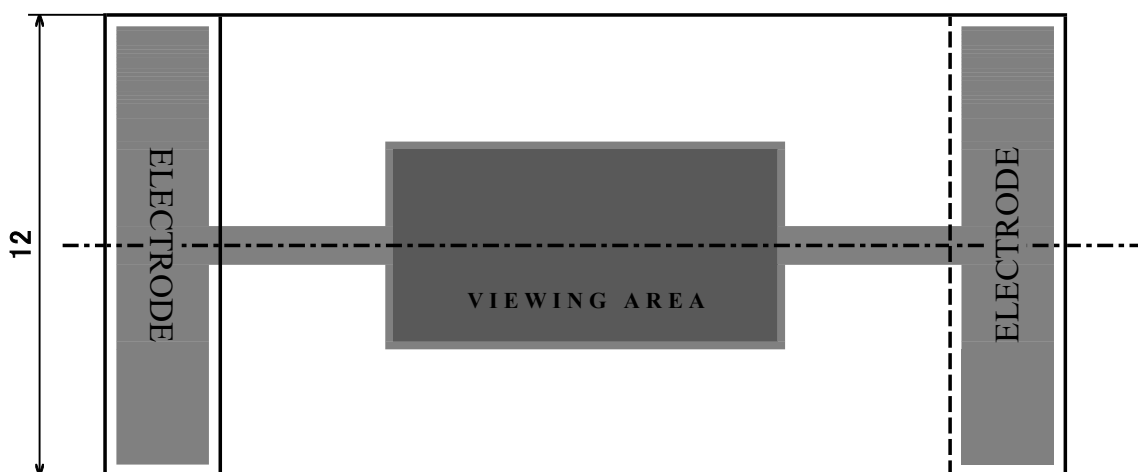


TEST CELL

INDICATION: KS RO - 02 / A 2 11 P 1 N S S 05 X
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

④ 【CELL TYPE】

D-type



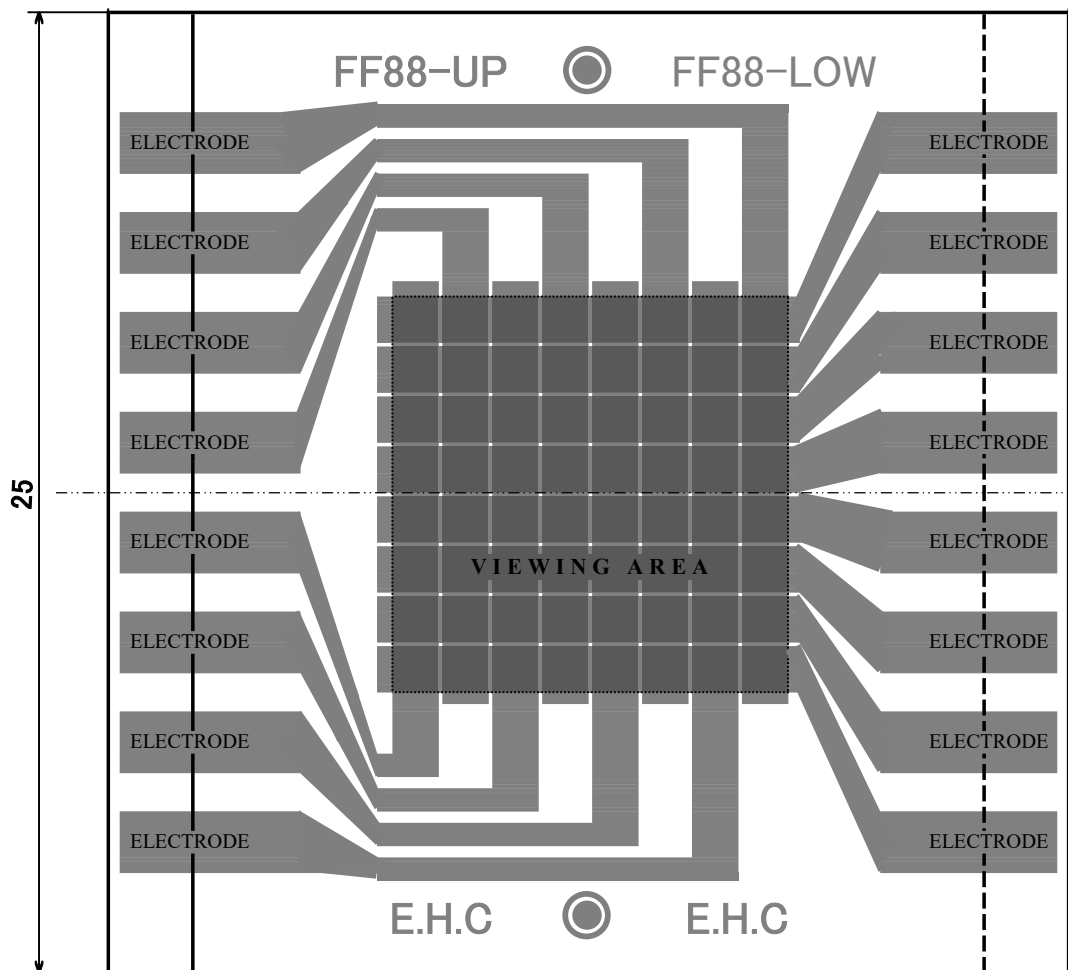
TEST CELL

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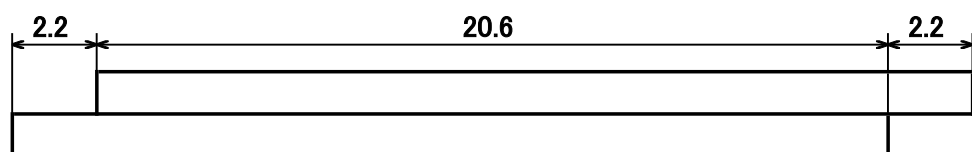
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

④ 【CELL TYPE】

FF(88)-type



VIEWING AREA : LINE (1.2×8) + SPACE (0.05×7)



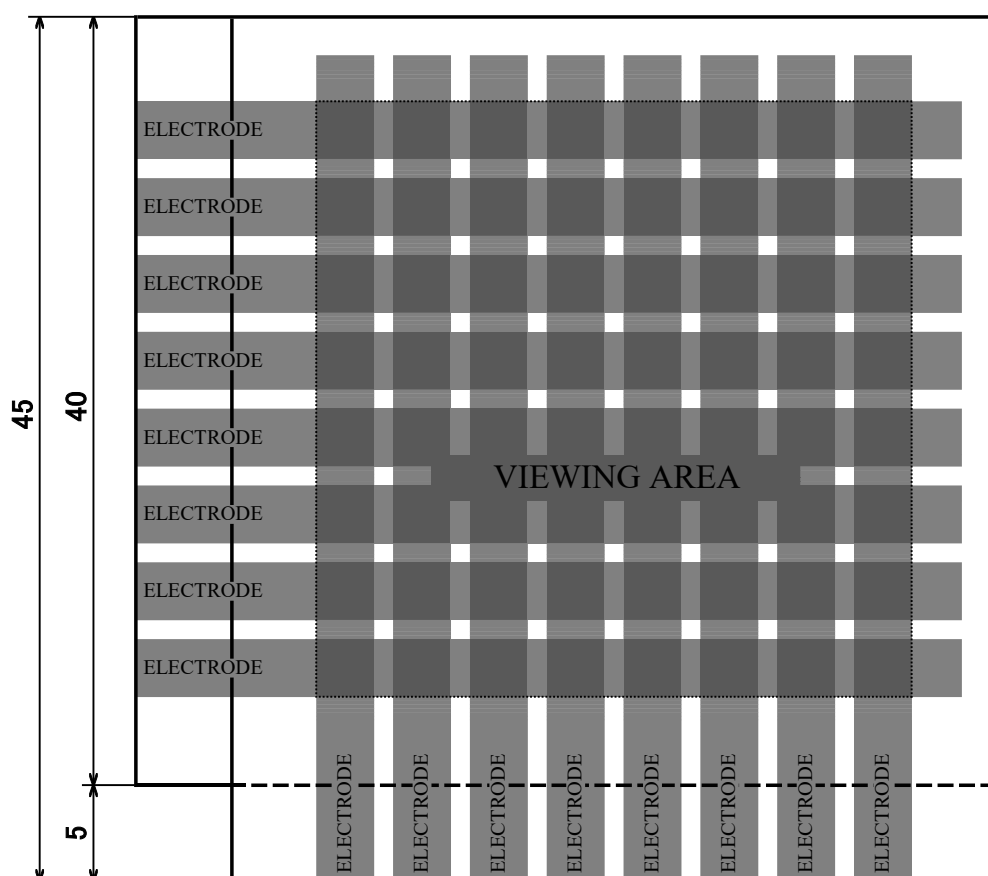
TEST CELL

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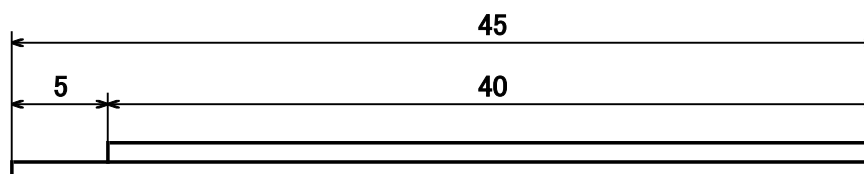
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

④ 【CELL TYPE】

DM(88)-type



VIEWING AREA : LINE (3.0×8) + SPACE (1.0×7)



INDICATION: KS RO - 02 / A 2 11 P 1 N S S 05 X

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

⑤ 【VIEWING AREA】

MARK	VIEWING AREA
1	10mm × 10mm
2	5mm × 5mm
3	4mm × 4mm
5	NA
6	10mm × 5mm

(NOTE) IF YOU SELECT "FF(88)" "DM(88)", THE ABOVE-MENTIONED ITEM IS NOT APPLIED.

(NOTE) ITEM 6 IS ONLY Dtype.

⑥ 【GLASS THICKNESS】

MARK	GLASS THICKNESS
07	0.7mm
11	1.1mm

⑦ 【GLASS MATERIAL】

MARK	GLASS MATERIAL
P	SODA LIME
M	BOROSILICATE

⑧ 【ITO RESISTIVITY】

MARK	ITO RESISTIVITY	THICKNESS
1	WITHIN 100Ω	200~400 Å
6	WITHIN 10Ω	1000~1600 Å
7	NOT ITO	NOT ITO

● FILM METHOD IS SPUTTERING.

⑨ 【N】 MEANS NO INSULATION.

INDICATION: KS RO - 02 / A 2 11 P 1 N S S 05 X

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

⑩ 【SEALING FORM】

MARK CELL	S	T	C
	OPEN	2 HOLE	1 HOLE
A type			
B type			
D type			
FF(88) type			
DM(88) type			

(NOTE) SEALING FORM MIGHT CHANGE WITHOUT A PRIVIOUS .

INDICATION: KS RO - 02 / A 2 11 P 1 N S S 05 X

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

⑪ 【SEAL MATERIAL】

MARK	SEAL MATERIAL
S	EPOXY RESIN

⑫ 【05】 MEANS CELL GAP ALLOWANCE $\pm 0.5 \mu\text{m}$.

CELL GAP	ALLOWANCE
2~4 μm	$\pm 0.5 \mu\text{m}$
5~10 μm	$\pm 0.5 \mu\text{m}$
	$\pm 1.5 \mu\text{m}$
15 μm	$\pm 3 \mu\text{m}$
25 μm	$\pm 5 \mu\text{m}$
50 μm	$\pm 10 \mu\text{m}$

(NOTE) 『05』 IS INDICATE. OTHERS IS NOT INDICATE.

(NOTE) IT IS APPLIED Atype、Btype、Dtype.

(NOTE) CELL GAP IS MEASURED BY IMPEDANCE MEASUREMENT METHOD.

⑬ 【X】 MEANS EXCEPT STANDARD.

● DIRECTION FILM

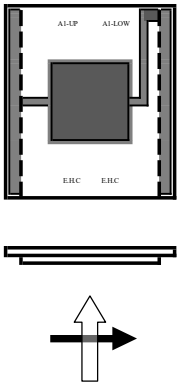
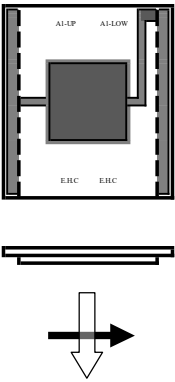
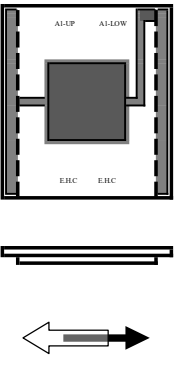
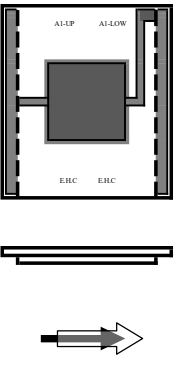
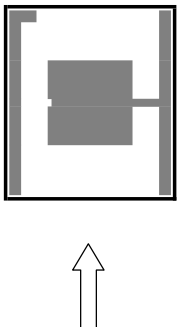
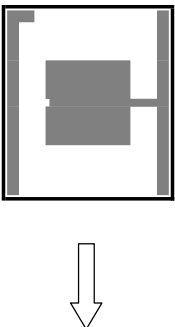
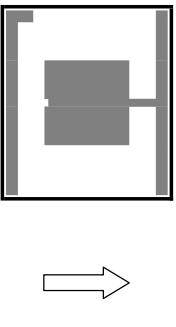
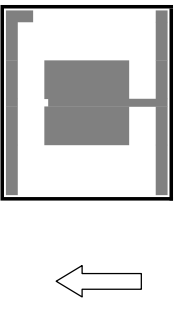
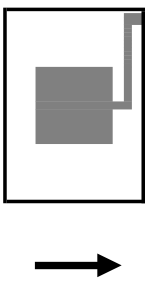
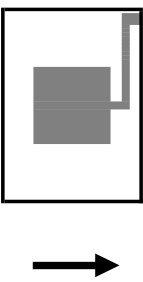
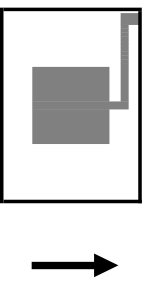
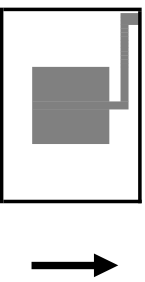
•PROVISION : CONTACT ABOUT COATING & BAKING CONDITION

● RUBBING CONDITION

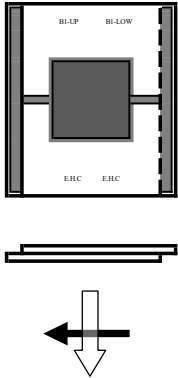
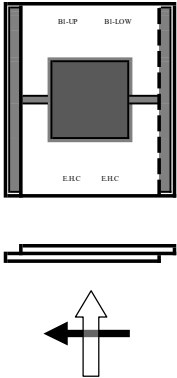
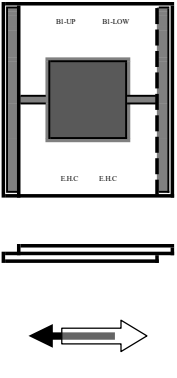
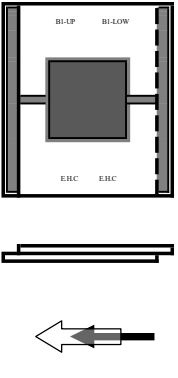
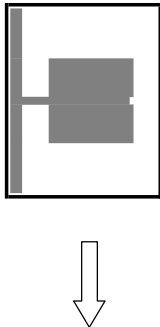
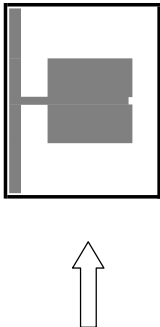
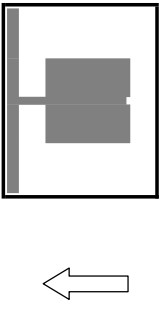
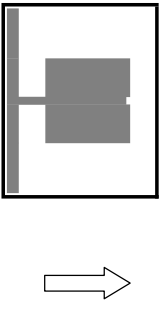
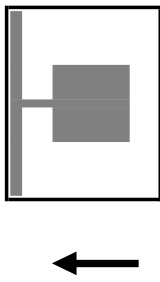
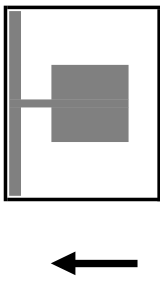
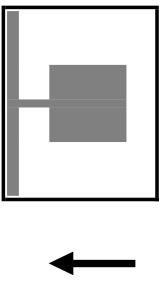
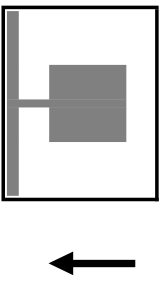
•CONDITION : ROTATIONAL-SPEED STAGE-SPEED ROUND-TRIP-FREQUENCY

•DIRECTION : ARBITRARY ANGLE

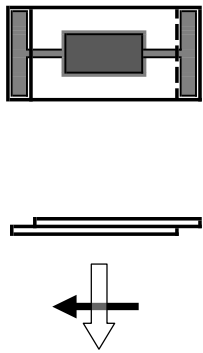
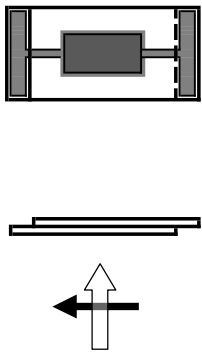
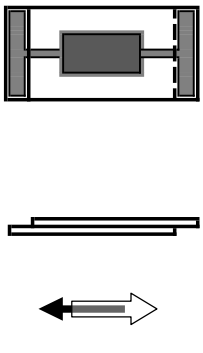
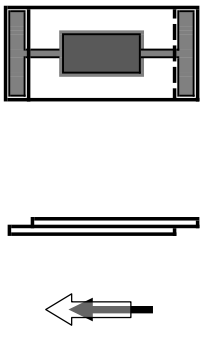
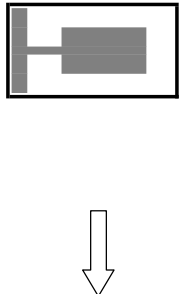
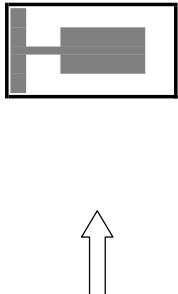
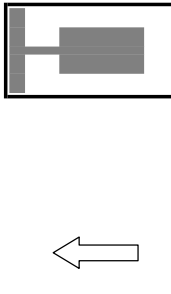
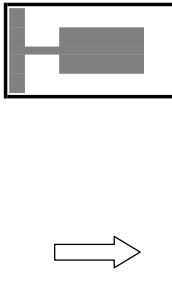
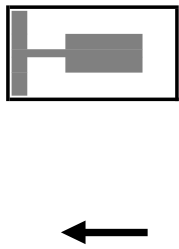
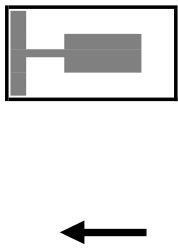
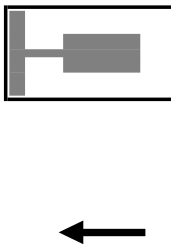
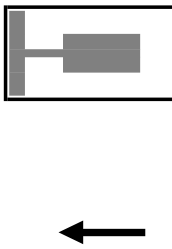
DIRECTION CHART.....A-type

MARK	RT	RS	RP	RO
ANGLE	LEFT 90°	RIGHT 90°	180°	360°
UNIT				
UP				
LOW				

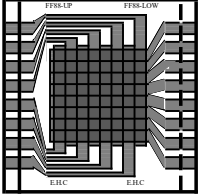
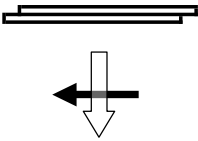
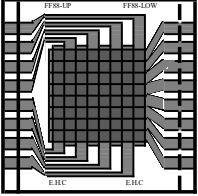
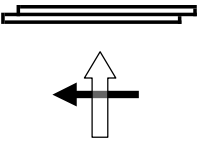
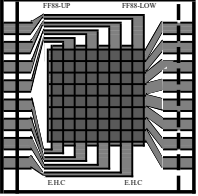
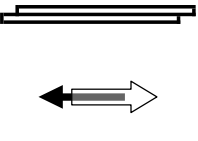
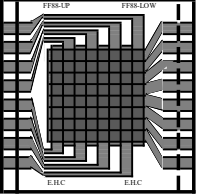
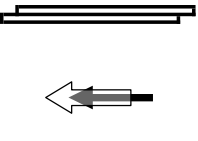
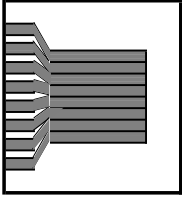
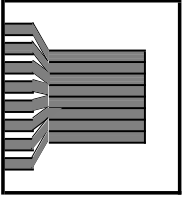
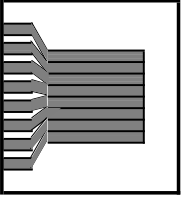
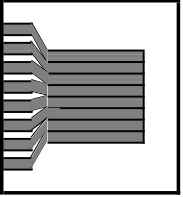
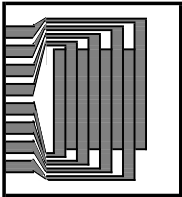
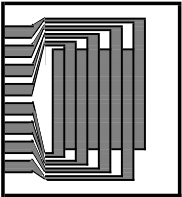
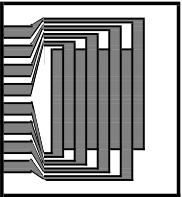
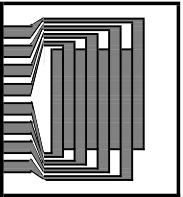
DIRECTION CHART.....B-type

MARK	RT	RS	RP	RO
ANGLE	LEFT 90°	RIGHT 90°	180°	360°
UNIT				
UP				
LOW				

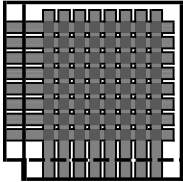
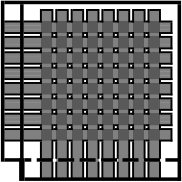
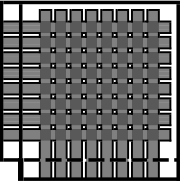
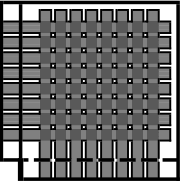
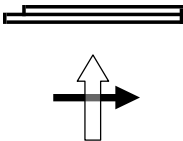
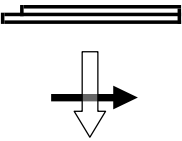
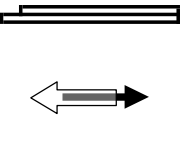
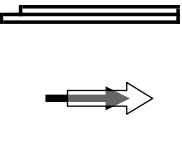
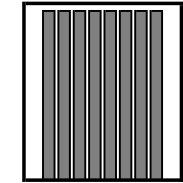
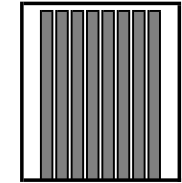
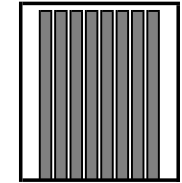
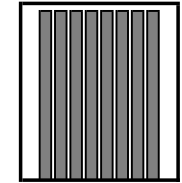
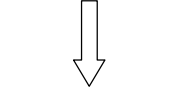
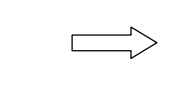
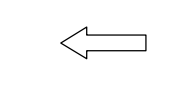
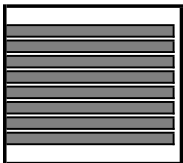
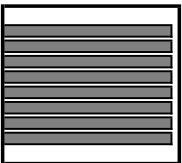
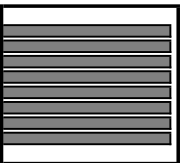
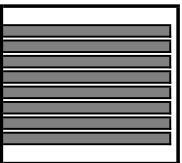
DIRECTION CHART.....D-type

MARK	RT	RS	RP	RO
ANGLE	LEFT 90°	RIGHT 90°	180°	360°
UNIT				
UP				
LOW				

DIRECTION CHART.....FF(88)-type

MARK	RT	RS	RP	RO
ANGLE	LEFT 90°	RIGHT 90°	180°	360°
UNIT	 	 	 	 
UP	 	 	 	 
LOW	 	 	 	 

DIRECTION CHART.....DM(88)-type

MARK	RT	RS	RP	RO
ANGLE	LEFT 90°	RIGHT 90°	180°	360°
UNIT	   	   	   	   
UP	   	   	   	   
LOW	   	   	   	   