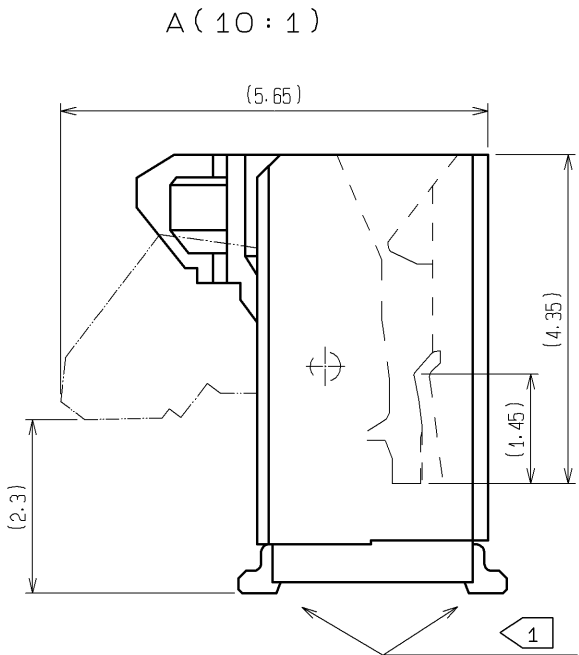
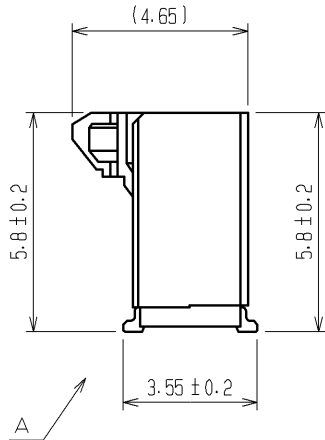
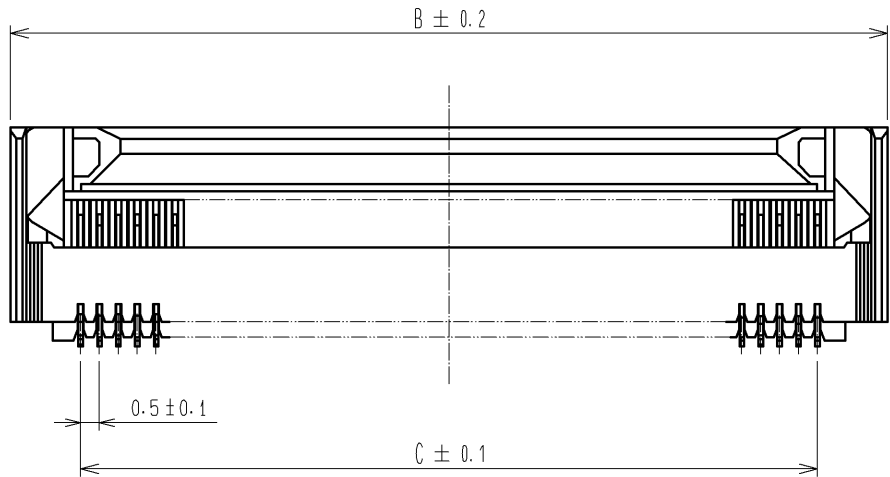
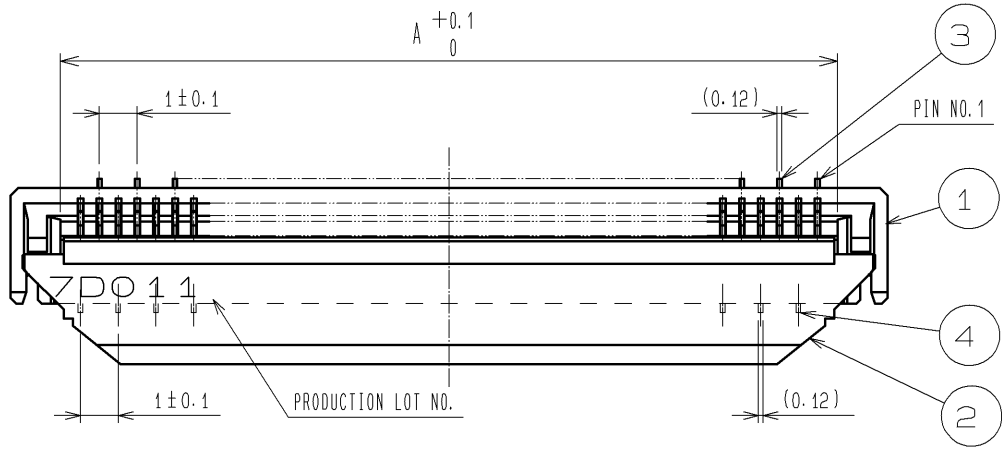
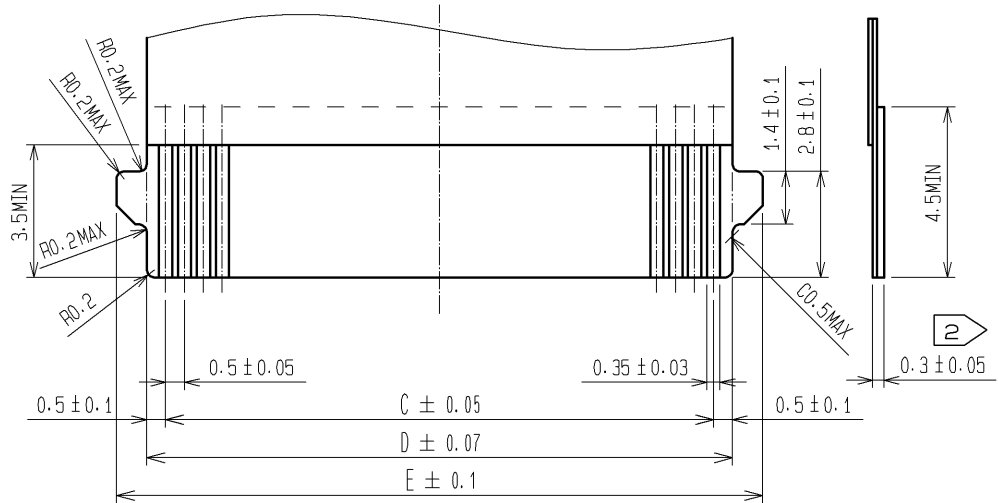


APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO 50 °C (PACKED CONDITION)	
	VOLTAGE	50 V AC / DC	OPERATING OR STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 90 % MAX (NOT DEWED)	
	CURRENT	0.5 A (<i>note</i>)	APPLICABLE CABLE	t=0.3±0.05mm, GOLD PLATING	
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	x	x
MARKING	CONFIRMED VISUALLY.			x	x
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	AC 20 mV MAX (1 KHz) , 1 mA .		50 mΩ MAX. INCLUDING FPC, FFC BULK RESISTANCE (L=8mm)	x	x
INSULATION RESISTANCE	100 V DC.		500 MΩ MIN.	x	x
VOLTAGE PROOF	150 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	x	x
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	20 TIMES INSERTIONS AND EXTRACTATIONS.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
VIBRATION	FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, — m/s ² FOR 10 CYCLES IN 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② CONTACT RESISTANCE: 50 mΩ MAX.	x	—
SHOCK	981 m/s ² , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 DIRECTIONS.		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		
FPC RETENSION FORCE	MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.30mm AT INITIAL CONDITION.)		DIRECTION OF INSERTION: 0.3N × n MIN. VERTICAL DIRECTION TO INSERTION: 0.2N × n MIN. (n:NUMBER OF CONTACTS)	x	—
ENVIRONMENTAL CHARACTERISTICS					
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -40→+15 TO +35→+85→+15 TO +35 °C TIME 30→ 2~3 → 30→ 2~3 min UNDER 5 CYCLES.		① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 90 TO 95 %, 96 h.			x	—
DAMP HEAT, CYCLIC	EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES, TOTAL 240 h.		① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
DRY HEAT	EXPOSED AT 85±2 °C, 96 h.		① CONTACT RESISTANCE: 50 mΩ MAX.	x	—
COLD	EXPOSED AT -40±3 °C, 96 h.		② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
CORROSION SALT MIST	EXPOSED AT 35±2 °C, 5 % SALT WATER SPRAY FOR 96 h.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	x	—
SURPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 80±5%, 25±5 PPM FOR 96 h.			x	—
HYDROGEN SULPHIDE [JIS C 0092]	EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 80±5%, 10 ~ 15 PPM FOR 96 h.			x	—
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
0					
REMARK			APPROVED	MO. ISHIDA	09. 01. 21
			CHECKED	YN. TAKASHITA	09. 01. 20
			DESIGNED	HH. TSUKUMO	09. 01. 20
			DRAWN	HH. TSUKUMO	09. 01. 20
Unless otherwise specified, refer to JIS C 5402.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-159298-00
HRS	SPECIFICATION SHEET		PART NO.	FH40-**S-0. 5SV	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL580	 1/2

SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING PEAK TMP. 250 °C MAX . REFLOW TMP. 230 °C MIN FOR 60 sec. 2) SOLDERING IRONS : TMP. 350±5°C FOR 5±1 sec .		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	x	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245 ± 5 °C FOR IMMERSION DURATION, 2±0.5 sec.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	x	—
(note) WHEN THE SAME VALUE OF CURRENT ARE APPLIED TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70 % OF THE RATED CURRENT VALUE.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-159298-00
	SPECIFICATION SHEET		PART NO.	FH40-**S-0. 5SV	
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL580	 2/2

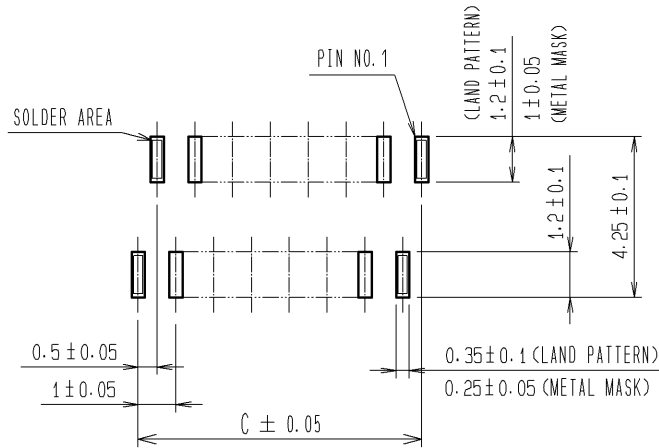


RECOMMENDED FPC (FREE)

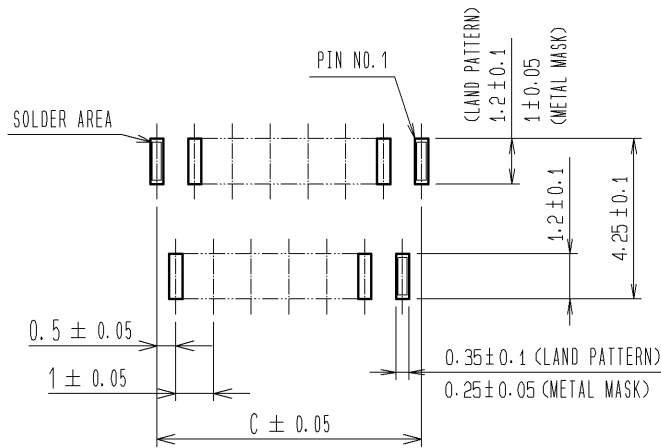


RECOMMENDED LAND PATTERN, METAL MASK (FREE)

NUMBER OF CONTACTS: EVEN NUMBER



NUMBER OF CONTACTS: ODD NUMBER

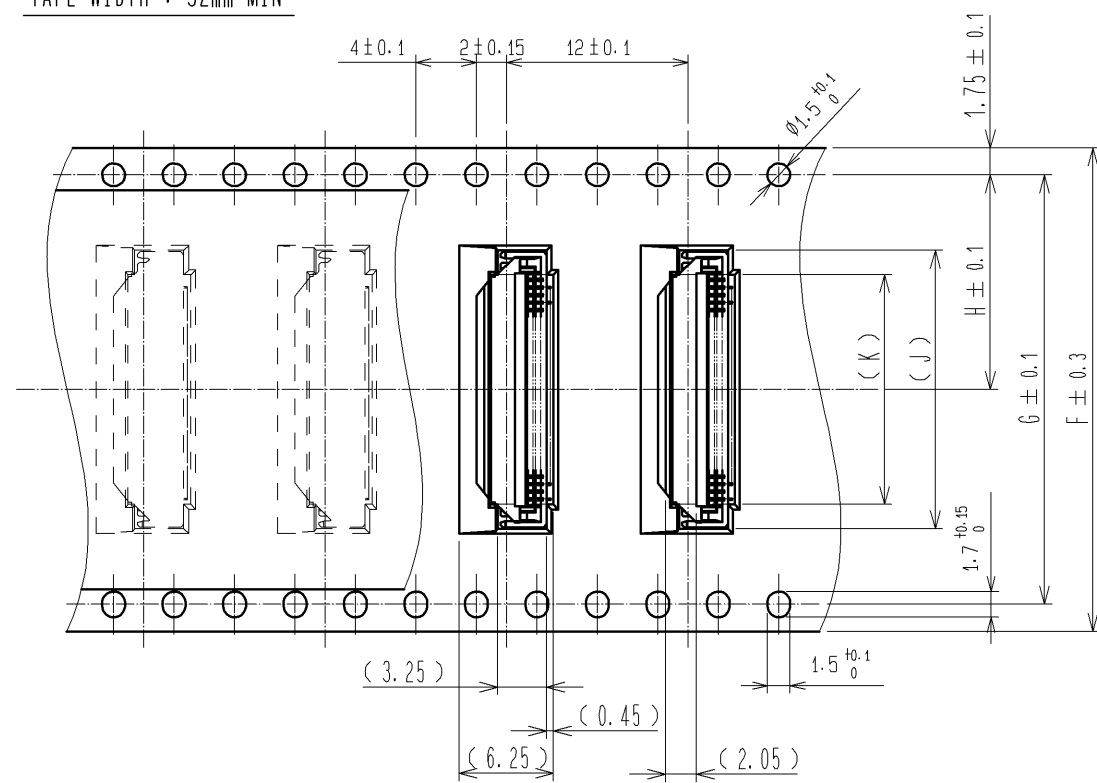


RECOMMENDED METAL MASK THICKNESS: $t=0.15$

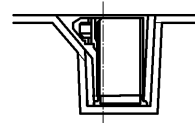
- NOTE
- 1 LEAD CO-PLANARITY SHALL BE 0.1 MAX.
 - 2 THICKNESS OF SUPPORTING TAPE SHALL BE 0.188(7.5mil) MIN.
 - 3 SEE DIMENSION TABLE IN THE APPENDIX.

4	PHOSPHOR BRONZE	(CONTACT AREA: LEAD) GOLD PLATING 0.05 μ m MIN. OVER NICKEL 1 μ m MIN. (OTHER) NICKEL 1 μ m MIN.	8	(CONNECTOR)	
3	PHOSPHOR BRONZE	(CONTACT AREA: LEAD) GOLD PLATING 0.05 μ m MIN. OVER NICKEL 1 μ m MIN. (OTHER) NICKEL 1 μ m MIN.	7	POLYSTYRENE	
2	LCP	(BLACK) UL94V-0	6	POLYESTER	
1	LCP	(BEIGE) UL94V-0	5	POLYSTYRENE	
NO.	MATERIAL	FINISH . REMARKS	NO.	MATERIAL	FINISH . REMARKS
UNITS mm	SCALE 5 : 1	COUNT 11	DESCRIPTION OF REVISIONS DIS-F-003968	DESIGNED MK. YASUMI	CHECKED HH. TSUKUMO
APPROVED : MO. ISHIDA	09. 03. 23	DRAWING NO. EDC3-159298-00			
CHECED : YN. TAKASHITA	09. 03. 23	PART NO. FH40- * S-0. 5SV			
DESIGNED : HH. TSUKUMO	09. 03. 19	CODE NO. CL580			
DRAWN : HH. TSUKUMO	09. 03. 19				

TAPE WIDTH : 32mm MIN

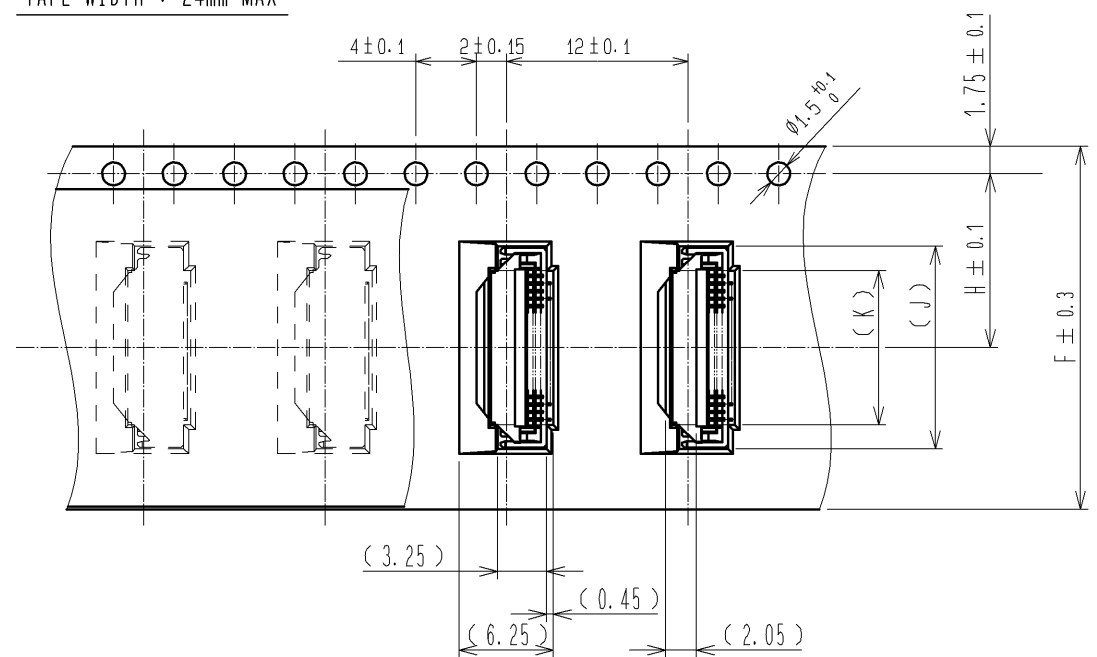


DIRECTION OF UNREELING

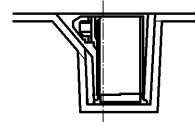


VACUUM PICK UP AREA

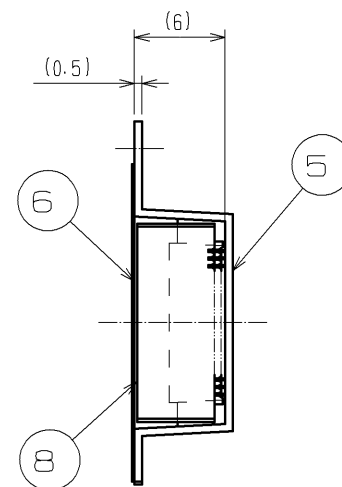
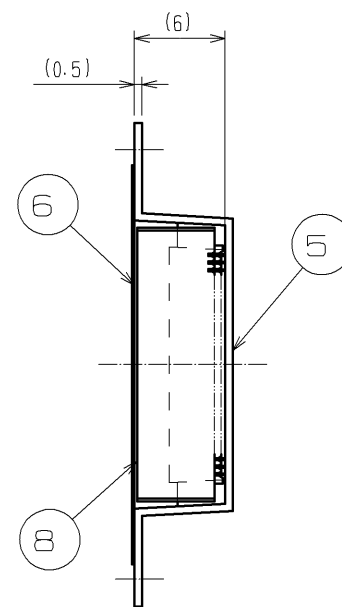
TAPE WIDTH : 24mm MAX



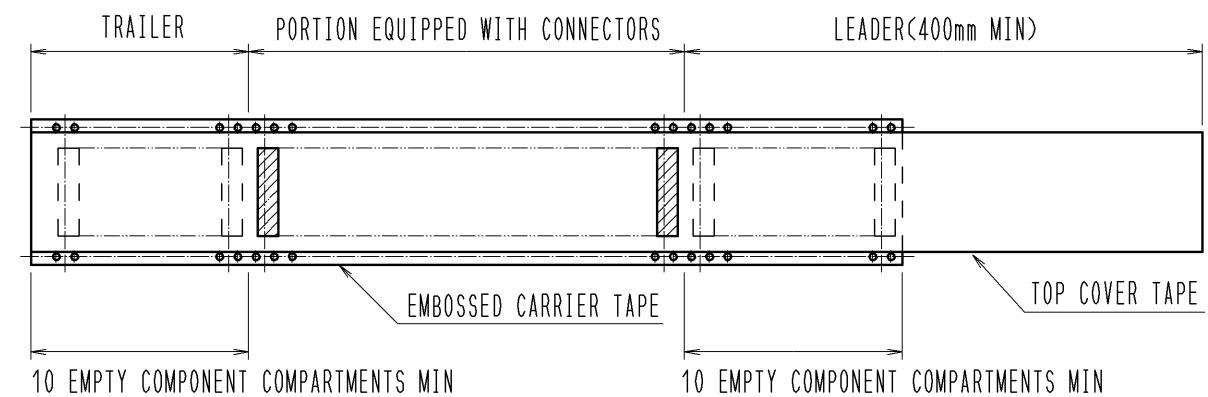
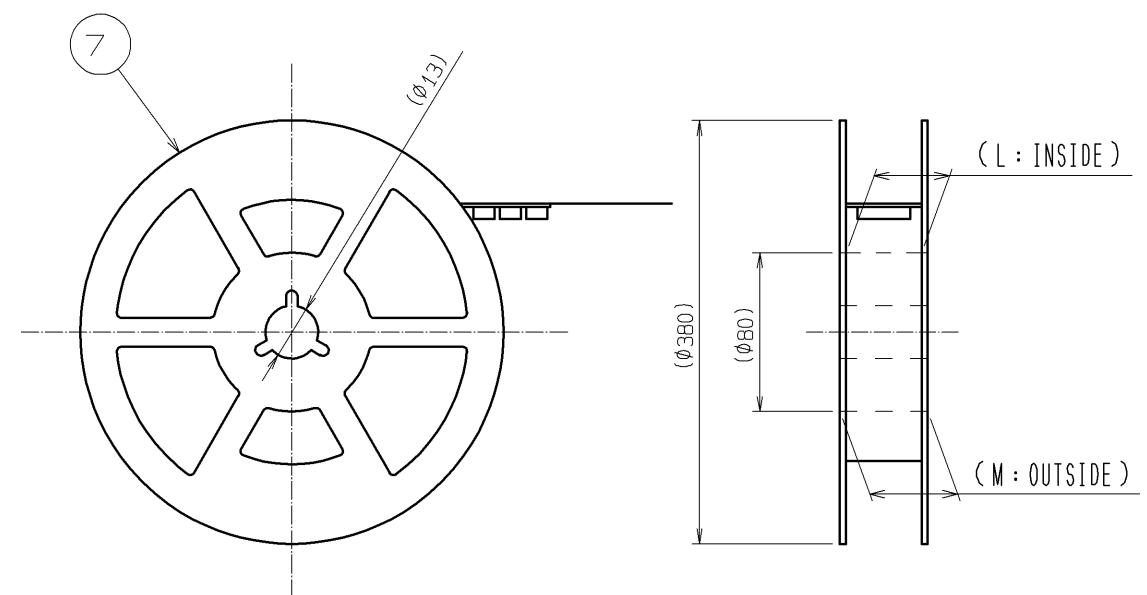
DIRECTION OF UNREELING



VACUUM PICK UP AREA



REEL DIMENSION (FREE)



- NOTE 4 THE DIMENSIONS IN PARENTHESES ARE FOR REFERENCE.
 5 PER REEL : 1000 CONNECTORS.
 6 REFER TO JIS C 0806 (PACKAGING OF COMPONENTS FOR AUTOMATIC HANDLING.)
 7 SEE DIMENSION TABLE IN THE APPENDIX.

<DRAWING FOR PACKING>

HRS

DRAWING NO.	EDC3-159298-00
PART NO.	FH40-**S-0.5SV
CODE NO.	CL580

DIMENSION TABLE OF CONNECTOR, FPC, LAND PATTERN AND METAL MASK

PART NO.	CODE NO.	NUMBER OF CONTACT	A	B	C	D	E
FH40-10S-0.5SV	 CL580-2104-6	10	5.57	8.2	4.5	5.5	7.1
FH40-20S-0.5SV	 CL580-2105-9	20	10.57	13.2	9.5	10.5	12.1
FH40-24S-0.5SV	CL580-2106-1	24	12.57	15.2	11.5	12.5	14.1
FH40-30S-0.5SV	 CL580-2108-7	30	15.57	18.2	14.5	15.5	17.1
FH40-40S-0.5SV	CL580-2107-4	40	20.57	23.2	19.5	20.5	22.1
FH40-45S-0.5SV	 CL580-2101-8	45	23.07	25.7	22	23	24.6
FH40-50S-0.5SV	CL580-2100-5	50	25.57	28.2	24.5	25.5	27.1
FH40-60S-0.5SV	 CL580-2109-0	60	30.57	33.2	29.5	30.5	32.1
FH40-64S-0.5SV	CL580-2102-0	64	32.57	35.2	31.5	32.5	34.1

 NOTES DELETED

DIMENSION TABLE OF DRAWING FOR PACKING

PART NO.	CODE NO.	NUMBER OF CONTACT	F	G	H	J	K	L	M
FH40-10S-0.5SV	 CL580-2104-6	10	16	—	7.5	8.4	5.2	17.4	21.4
FH40-20S-0.5SV	 CL580-2105-9	20	24	—	11.5	13.4	10.2	25.4	29.4
FH40-24S-0.5SV	CL580-2106-1	24	24	—	11.5	15.4	12.2	25.4	29.4
FH40-30S-0.5SV	 CL580-2108-7	30	32	28.4	14.2	18.4	15.2	33.4	37.4
FH40-40S-0.5SV	CL580-2107-4	40	44	40.4	20.2	23.4	20.2	45.4	49.4
FH40-45S-0.5SV	 CL580-2101-8	45	44	40.4	20.2	25.9	22.7	45.4	49.4
FH40-50S-0.5SV	CL580-2100-5	50	44	40.4	20.2	28.4	25.2	45.4	49.4
FH40-60S-0.5SV	 CL580-2109-0	60	56	52.4	26.2	33.4	30.2	57.4	61.4
FH40-64S-0.5SV	CL580-2102-0	64	56	52.4	26.2	35.4	32.2	57.4	61.4



図番：	EDC3-159298-00
製品名：	FH40-**S-0.5SV
製品コード	CL580