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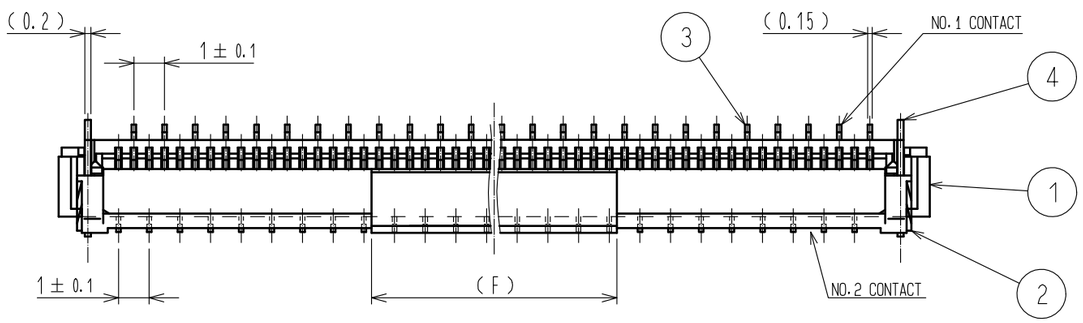
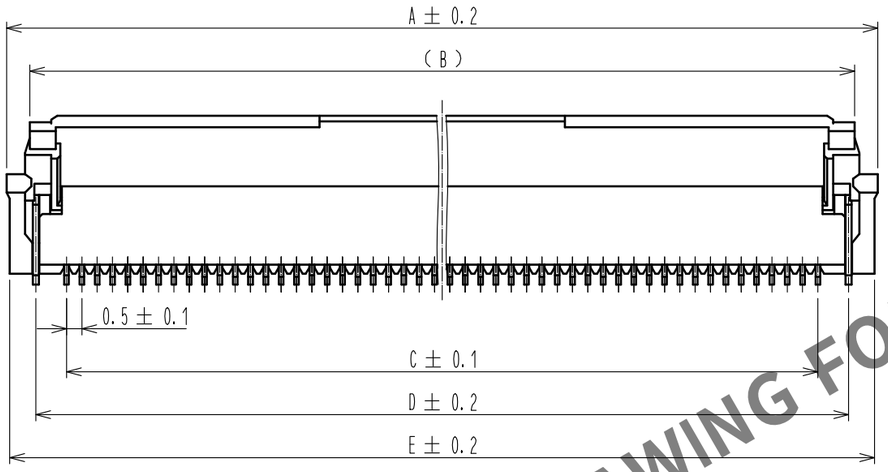
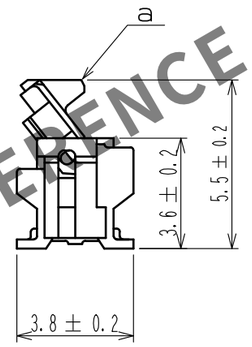
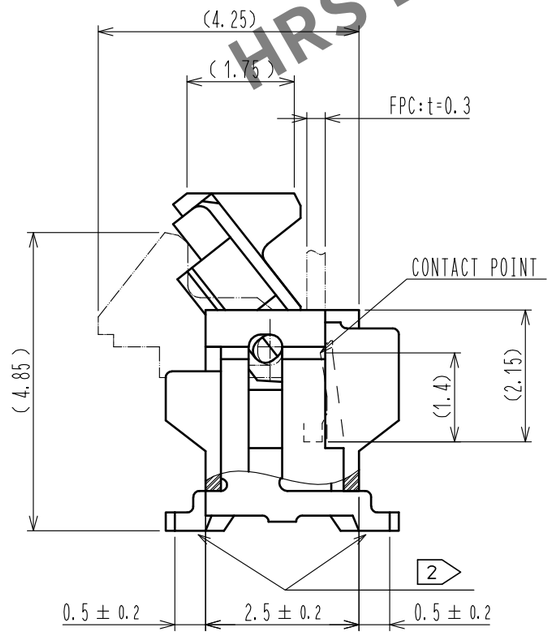






a (10 : 1)



NOTE
1. THE DIMENSIONS IN PARENTHESES ARE FOR REFERENCE.
2. LEAD CO-PLANARITY SHALL BE 0.1 MAX.
3. SEE DIMENSION TABLE IN THE APPENDIX.
4. MATERIAL

NUMBER OF CONTACTS	MATERIAL
60	LCP
OTHER	POLYAMIDE

5. DIFFERENCES OF THE GOLD PLATED AREA DO NOT INFLUENCE ON THE PRODUCT PERFORMANCE.
6. 'n' REPRESENTS THE NUMBER of CONTACTS.

HRS DRAWING FOR REFERENCE

NO.	MATERIAL	FINISH , REMARKS	NO.	MATERIAL	FINISH , REMARKS
3	PHOSPHOR BRONZE	(CONTACT AREA, LEAD) GOLD PLATING 0.05μmMIN OVER NICKEL 1μmMIN (OTHER) NICKEL PLATING 1μmMIN 5	8	(CONNECTOR)	
			7	POLYSTYRENE	
			6	POLYESTER	
2	PPS	(DEEP BROWN) UL94V-0	5	POLYSTYRENE	
1	4	(BEIGE) UL94V-0	4	BRASS	TIN PLATING 1μm MIN. OVER NICKEL 1μm MIN.

UNITS	SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	5 : 1	0					

HRS HIROSE ELECTRIC CO., LTD.

APPROVED	NF. MIYAZAKI	17. 03. 01
CHECKED	FN. TAMURA	17. 03. 01
DESIGNED	RT. IKEDA	17. 03. 01
DRAWN	RK. OGASAWARA	17. 03. 01

DRAWING NO.	EDC-375800-00-00
PART NO.	FH12-**S-0.5SVA(98)
CODE NO.	CL586

0 1/5

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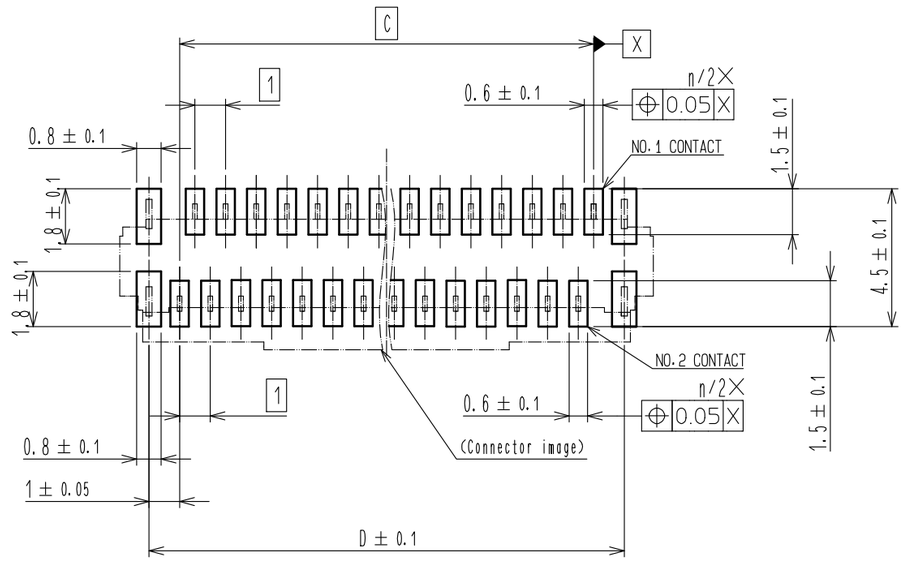
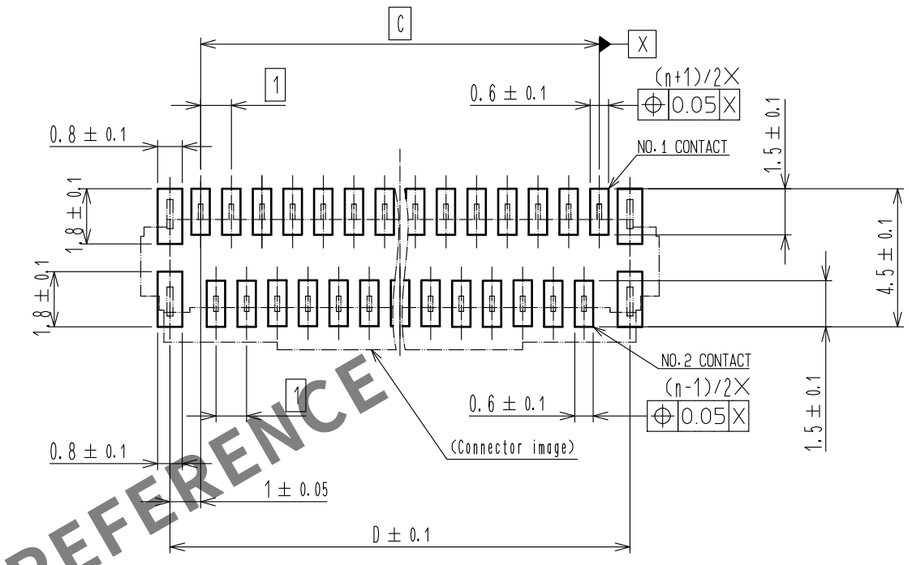
RECOMMENDED PCB MOUNTING PATTERN

NUMBER OF CONTACTS:EVEN NUMBER



NUMBER OF CONTACTS:ODD NUMBER

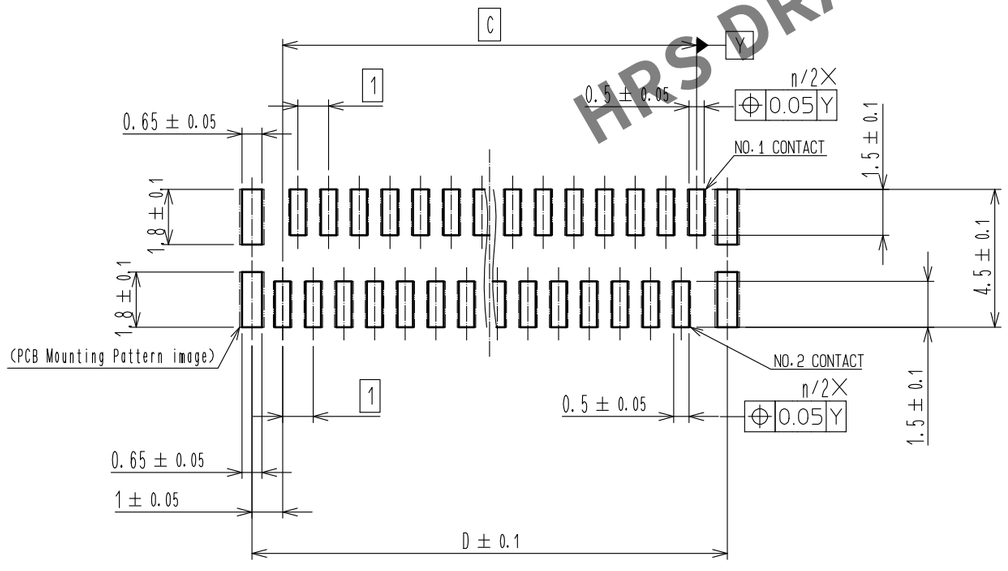


HRS DRAWING FOR REFERENCE

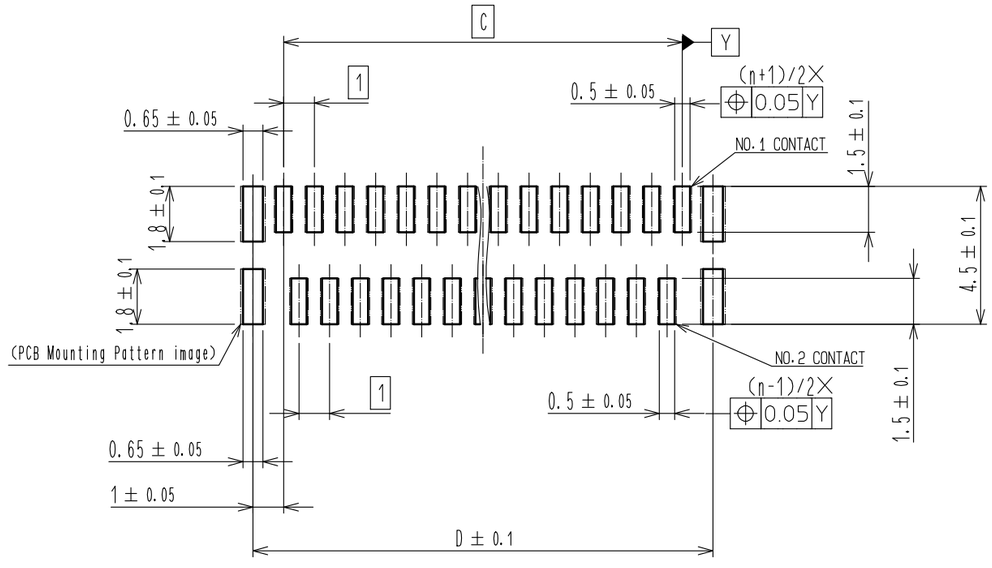
RECOMMENDED STENCIL PATTERN

(RECOMMENDED STENCIL THICKNESS : t=0.15)

NUMBER OF CONTACTS:EVEN NUMBER



NUMBER OF CONTACTS:ODD NUMBER



HRS	DRAWING NO.	EDC-375800-00-00
	PART NO.	FH12-**S-0.5SVA(98)
	CODE NO.	CL586
		0 2/5

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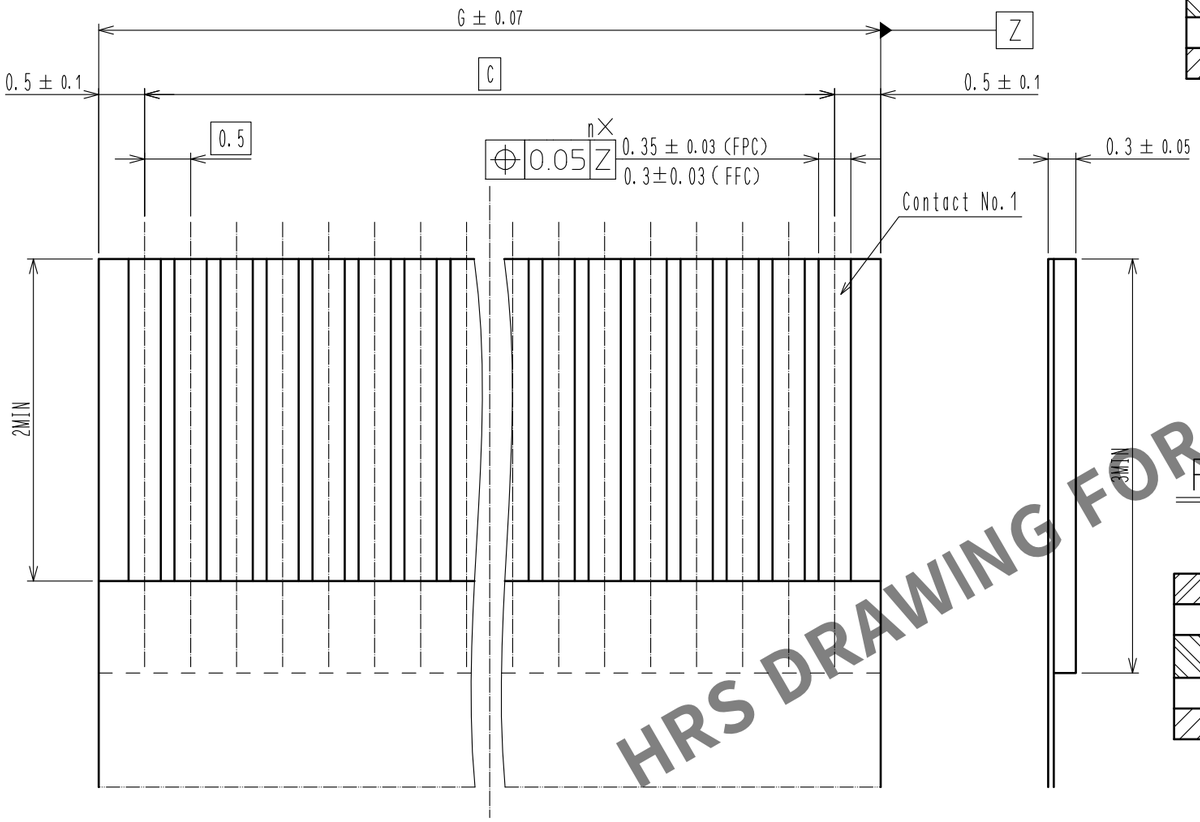
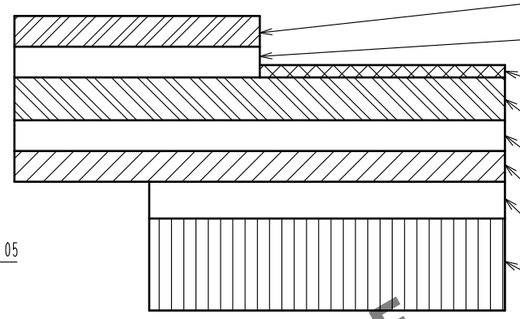
RECOMMENDED FPC/FFC (15:1)

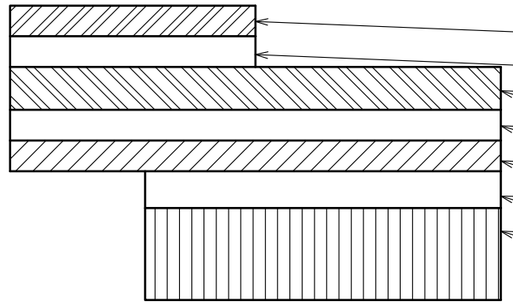


FPC CONFIGURATION (REFERENCE EXAMPLE) (SCALE:FREE)



MATERIAL NAME	MATERIAL	THICKNESS(μm)
COVERING FILM LAYER	POLYIMIDE 1mil thick.	(25)
COVER ADHESIVE		(25)
SURFACE TREATMENT	NICKEL UNDERCOAT 1 to 5μm + GOLD PLATING 0.2μm	3
COPPER FOIL	Cu 1 oz	35
BASE ADHESIVE	HEAT-HARDENED ADHESIVE	25
BASE FILM	POLYIMIDE 1mil thick	25
REINFORCEMENT MATERIAL ADHESIVE	HEAT-HARDENED ADHESIVE	30
STIFFENER FILM	POLYIMIDE 7mil thick	175

FFC CONFIGURATION (REFERENCE EXAMPLE) (SCALE:FREE)



MATERIAL NAME	MATERIAL	THICKNESS(μm)
POLYESTER FILM		(12)
ADHESIVE	THERMOPLASTIC POLYESTER	(30)
GOLD PLATED, SOFT COPPER FILM		35
ADHESIVE	POLYESTER	30
POLYESTER		12
ADHESIVE	POLYESTER	30
STIFFENER FILM	POLYESTER	188

HRS DRAWING FOR REFERENCE

HRS	DRAWING NO.	EDC-375800-00-00
	PART NO.	FH12-**S-0.5SVA(98)
	CODE NO.	CL586
		△0 3/5

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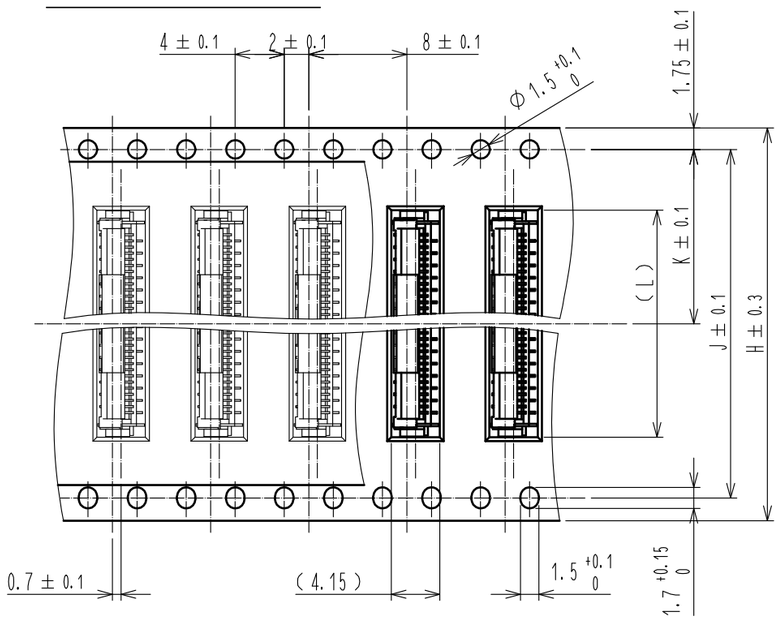
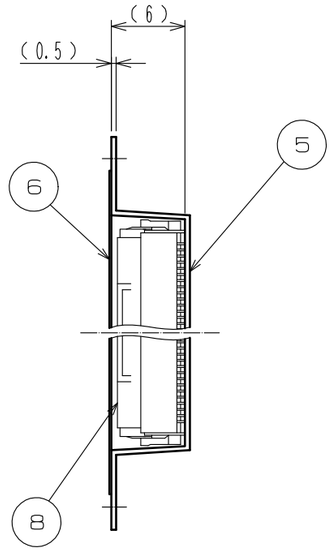
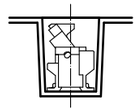
EMBOSSED CARRIER TAPE DIMENSION (2:1)

TAPE WIDTH : 32mm MIN

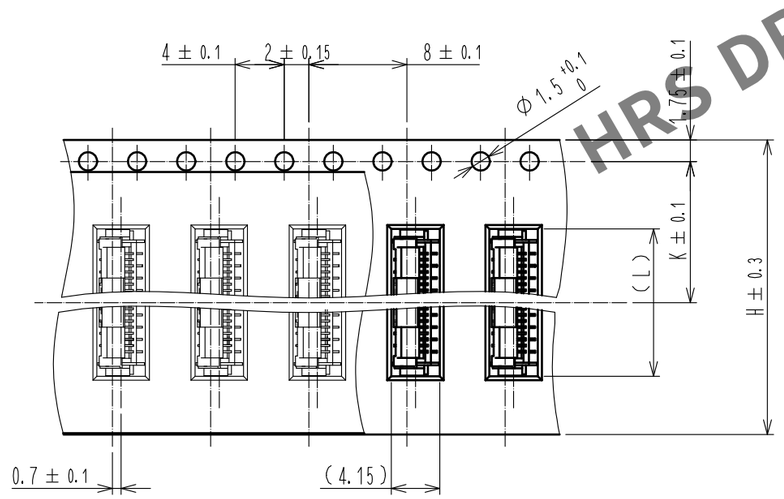


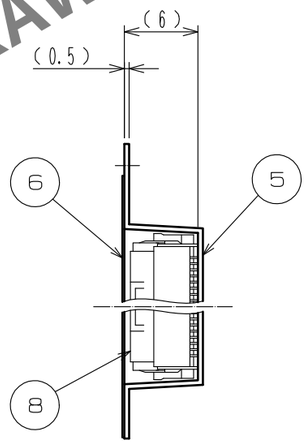


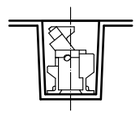


DIRECTION OF UNREELING

TAPE WIDTH : 24mm MAX

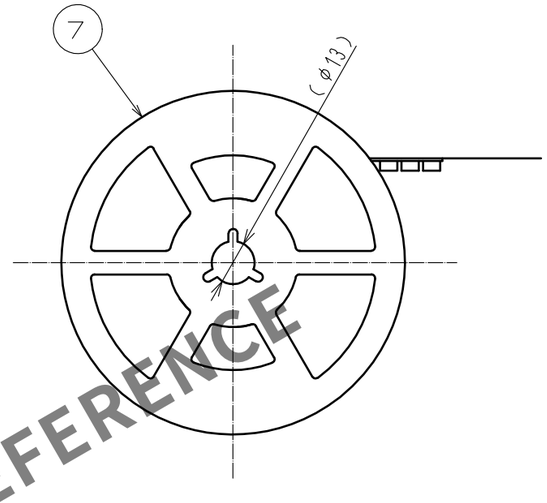


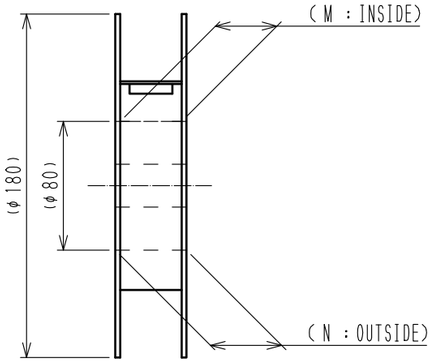


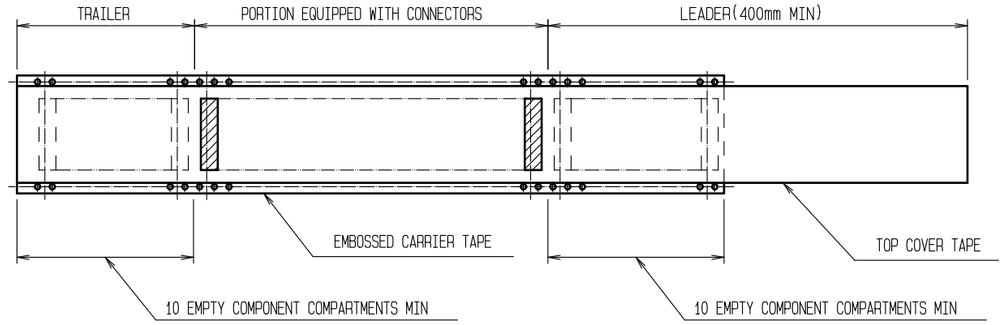


DIRECTION OF UNREELING

REEL DIMENSION(SHOW AS BELOW)(FREE)







NOTE 7 1REEL : 500 CONNECTORS.

HRS DRAWING FOR REFERENCE

DRAWING FOR PACKING

DRAWING NO.	EDC-375800-00-00
PART NO.	FH12-**S-0.5SVA(98)
CODE NO.	CL586

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PART NO.	CODE NO.	NUMBER OF CONTACTS	DIMENSION TABLE OF CONNECTOR, FPC, FFC, PCB MOUNTING PATTERN AND STENCIL PATTERN							DIMENSION TABLE OF DRAWING FOR PACKING					
			A	B	C	D	E	F	G	H	J	K	L	M	N
FH12-6S-0.5SVA(98)	CL586-0756-4-98	6	6.4	4.9	2.5	4.5	6.2	2	3.5	16	—	7.5	6.5	17.4	21.4
FH12-10S-0.5SVA(98)	CL586-0806-0-98	10	8.4	6.9	4.5	6.5	8.2	4	5.5	16	—	7.5	8.5	17.4	21.4
FH12-12S-0.5SVA(98)	CL586-0757-7-98	12	9.4	7.9	5.5	7.5	9.2	4	6.5	16	—	7.5	9.5	17.4	21.4
FH12-13S-0.5SVA(98)	CL586-0807-3-98	13	9.9	8.4	6	8	9.7	4	7	24	—	11.5	10	25.4	29.4
FH12-15S-0.5SVA(98)	CL586-0808-6-98	15	10.9	9.4	7	9	10.7	4	8	24	—	11.5	11	25.4	29.4
FH12-16S-0.5SVA(98)	CL586-0809-9-98	16	11.4	9.9	7.5	9.5	11.2	4	8.5	24	—	11.5	11.5	25.4	29.4
FH12-17S-0.5SVA(98)	CL586-0810-8-98	17	11.9	10.4	8	10	11.7	4	9	24	—	11.5	12	25.4	29.4
FH12-18S-0.5SVA(98)	CL586-0811-0-98	18	12.4	10.9	8.5	10.5	12.2	4	9.5	24	—	11.5	12.5	25.4	29.4
FH12-20S-0.5SVA(98)	CL586-0812-3-98	20	13.4	11.9	9.5	11.5	13.2	4	10.5	24	—	11.5	13.5	25.4	29.4
FH12-22S-0.5SVA(98)	CL586-0813-6-98	22	14.4	12.9	10.5	12.5	14.2	8	11.5	24	—	11.5	14.5	25.4	29.4
FH12-24S-0.5SVA(98)	CL586-0814-9-98	24	15.4	13.9	11.5	13.5	15.2	8	12.5	24	—	11.5	15.5	25.4	29.4
FH12-26S-0.5SVA(98)	CL586-0815-1-98	26	16.4	14.9	12.5	14.5	16.2	8	13.5	24	—	11.5	16.5	25.4	29.4
FH12-30S-0.5SVA(98)	CL586-0750-8-98	30	18.4	16.9	14.5	16.5	18.2	8	15.5	32	28.4	14.2	18.5	33.4	37.4
FH12-32S-0.5SVA(98)	CL586-0816-4-98	32	19.4	17.9	15.5	17.5	19.2	8	16.5	32	28.4	14.2	19.5	33.4	37.4
FH12-33S-0.5SVA(98)	CL586-0818-0-98	33	19.9	18.4	16	18	19.7	8	17	32	28.4	14.2	20	33.4	37.4
FH12-34S-0.5SVA(98)	CL586-0817-7-98	34	20.4	18.9	16.5	18.5	20.2	8	17.5	44	40.4	20.2	20.5	45.4	49.4
FH12-36S-0.5SVA(98)	CL586-0819-2-98	36	21.4	19.9	17.5	19.5	21.2	8	18.5	44	40.4	20.2	21.5	45.4	49.4
FH12-40S-0.5SVA(98)	CL586-0804-5-98	40	23.4	21.9	19.5	21.5	23.2	8	20.5	44	40.4	20.2	23.5	45.4	49.4
FH12-45S-0.5SVA(98)	CL586-0820-1-98	45	25.9	24.4	22	24	25.7	8	23	44	40.4	20.2	26	45.4	49.4
FH12-49S-0.5SVA(98)	CL586-0821-4-98	49	27.9	26.4	24	26	27.7	8	25	44	40.4	20.2	28	45.4	49.4
FH12-50S-0.5SVA(98)	CL586-0805-8-98	50	28.4	26.9	24.5	26.5	28.2	8	25.5	44	40.4	20.2	28.5	45.4	49.4
FH12-60S-0.5SVA(98)	CL586-0749-9-98	60	33.4	31.9	29.5	31.5	33.2	8	30.5	56	52.4	26.2	33.5	57.4	61.4

HRS DRAWING FOR REFERENCE

HRS	DRAWING NO.	EDC-375800-00-00
	PART NO.	FH12-**S-0.5SVA(98)
	CODE NO.	CL586