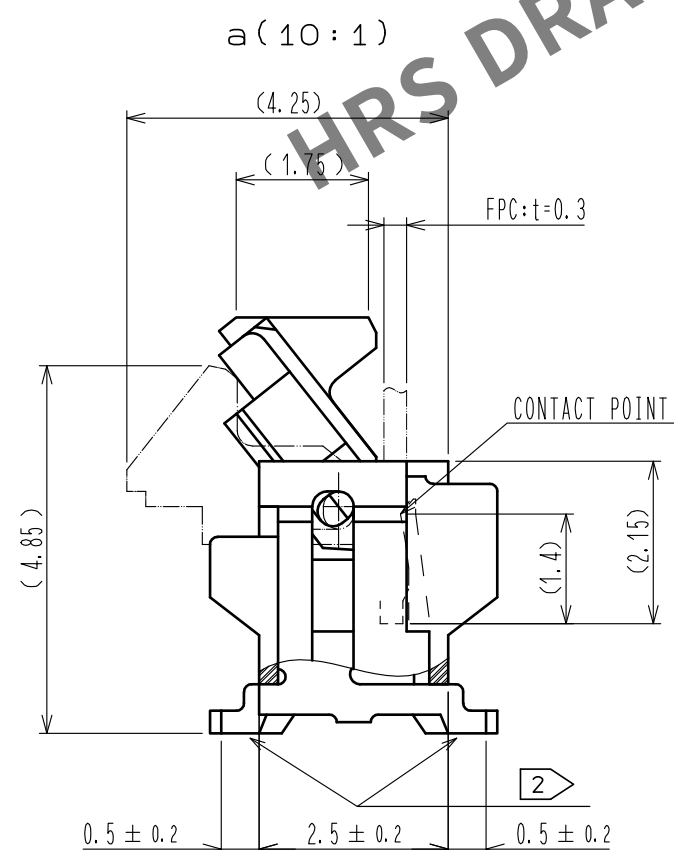
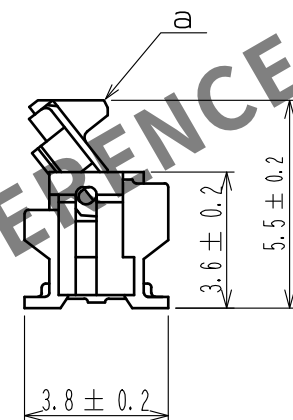
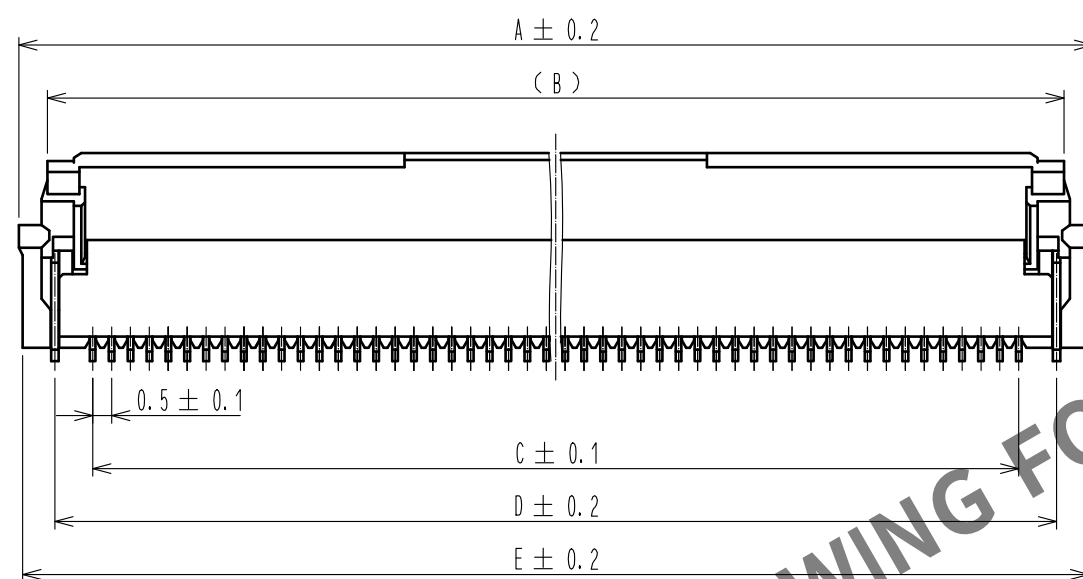
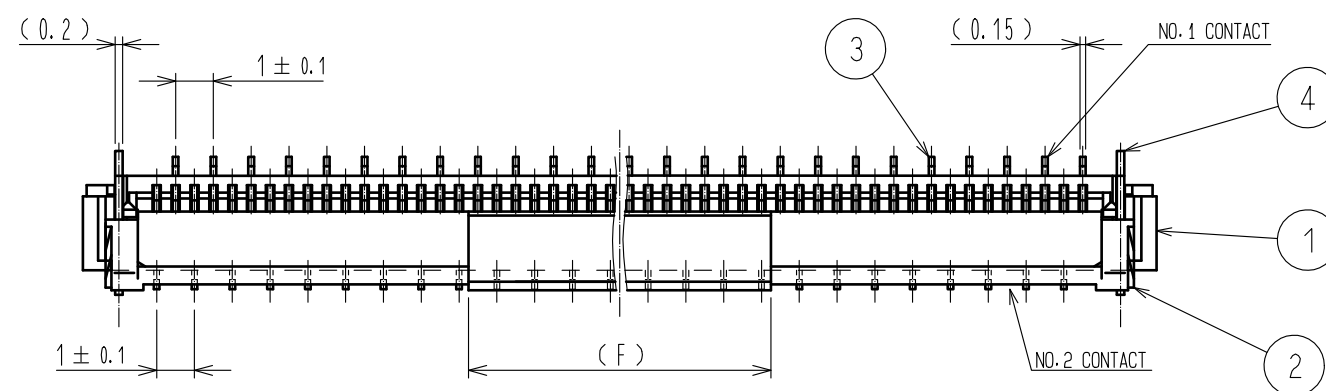


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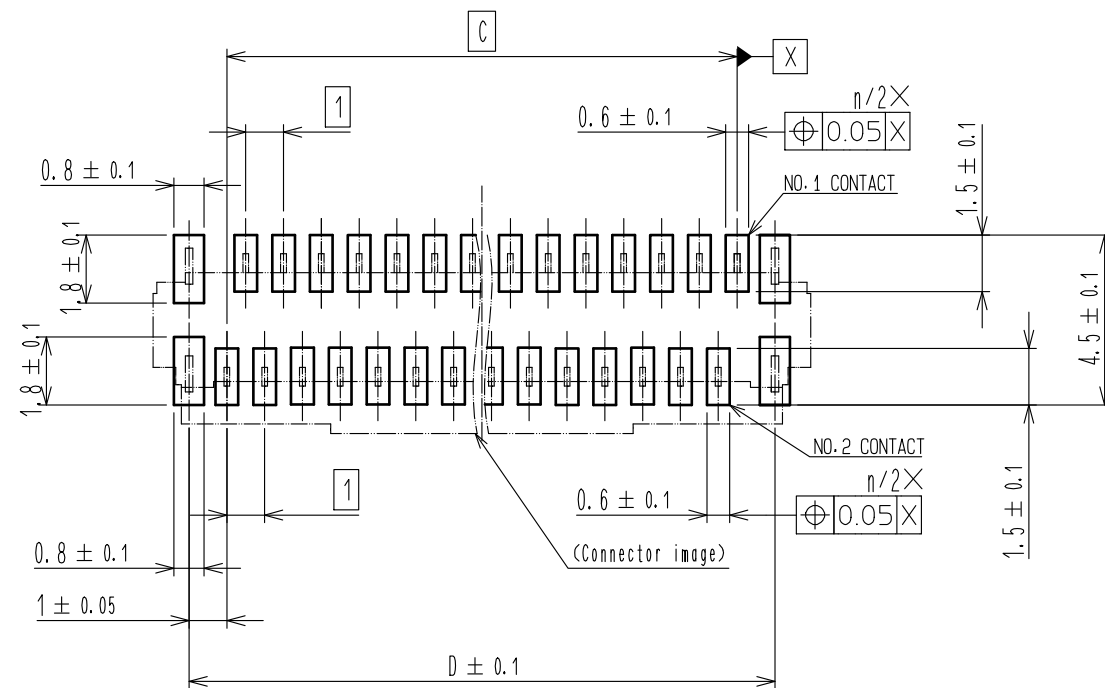
A
B
C
D
E
F



- 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.

3	PHOSPHOR BRONZE	<CONTACT AREA, LEAD> GOLD PLATING 0.05μm MIN OVER NICKEL 1μm MIN <OTHER> NICKEL PLATING 1μm MIN	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.
NO.	MATERIAL	FINISH . REMARKS	NO.	MATERIAL	FINISH . REMARKS
UNITS mm		SCALE 5 : 1	COUNT Δ	DESCRIPTION OF REVISIONS	
HIROSE ELECTRIC CO., LTD.		APPROVED : NF. MIYAZAKI	17. 03. 01	DRAWING NO.	EDC-375800-00-00
		CHECKED : FN. TAMURA	17. 03. 01	PART NO.	FH12- * * S-0. 5SVA(98)
		DESIGNED : RT. IKEDA	17. 03. 01	CODE NO.	CL586
		DRAWN : RK. OGASAWARA	17. 03. 01		
				DESIGNED	CHECKED
				DATE	

NUMBER OF CONTACTS: EVEN NUMBER

[illegible]

NUMBER OF CONTACTS: EVEN NUMBER

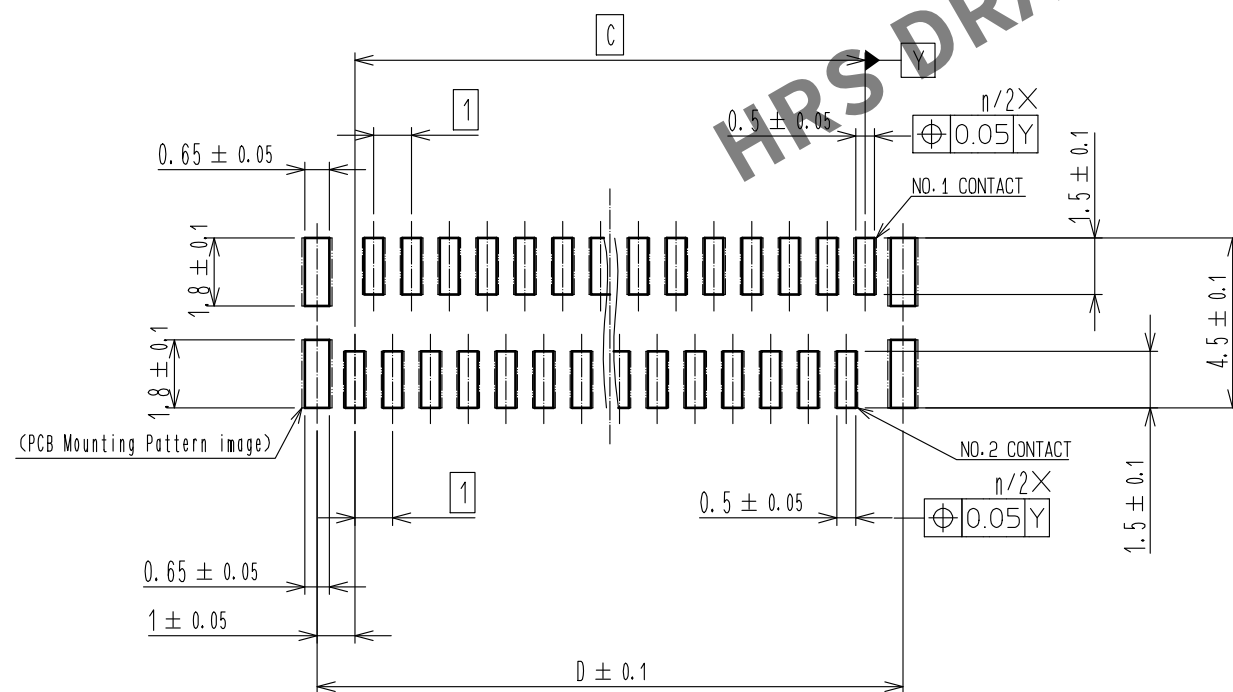
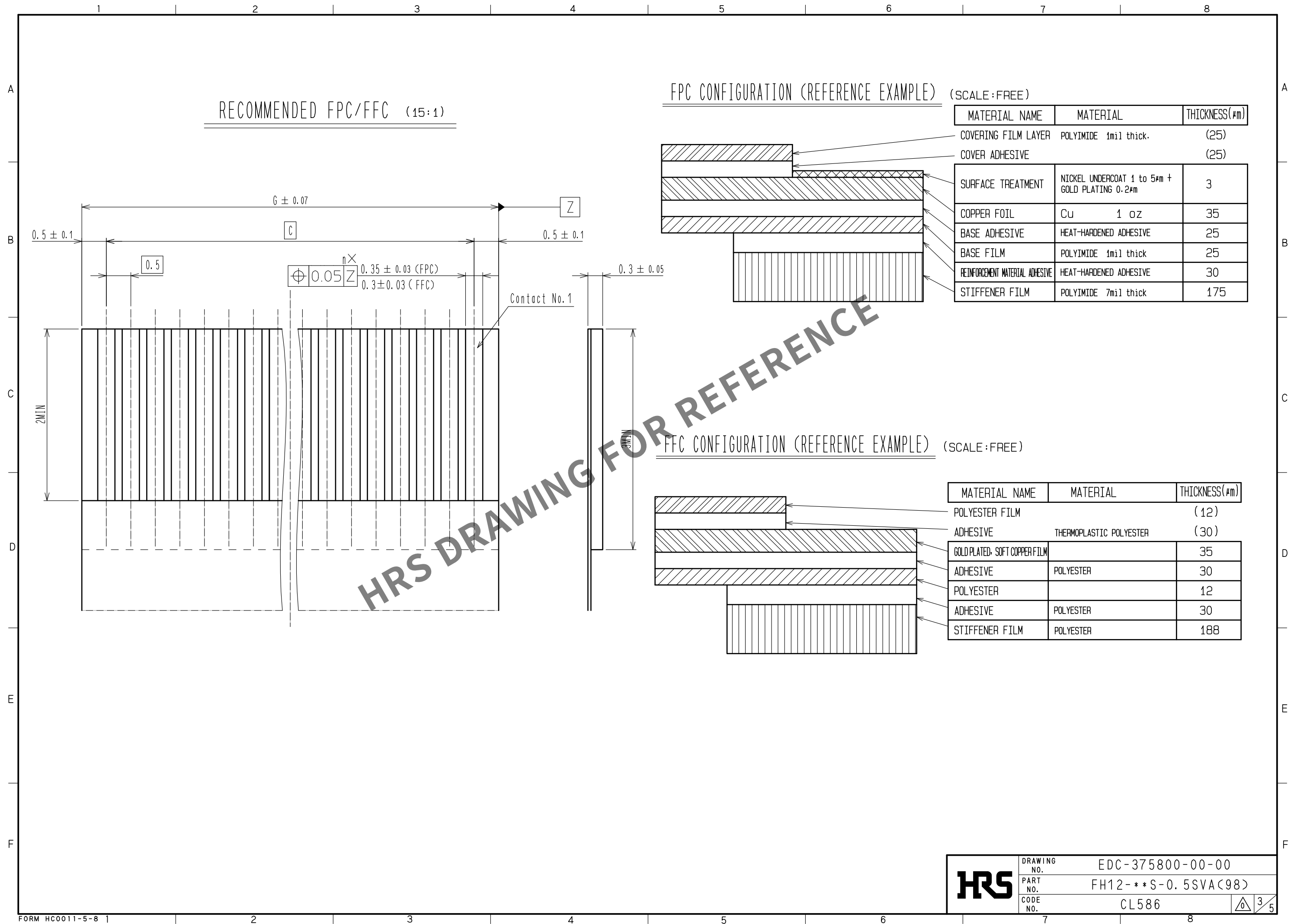


Figure 1: Dimensions of the mounting pattern. The diagram shows a top-down view of a 20-pin connector layout. Key dimensions include:

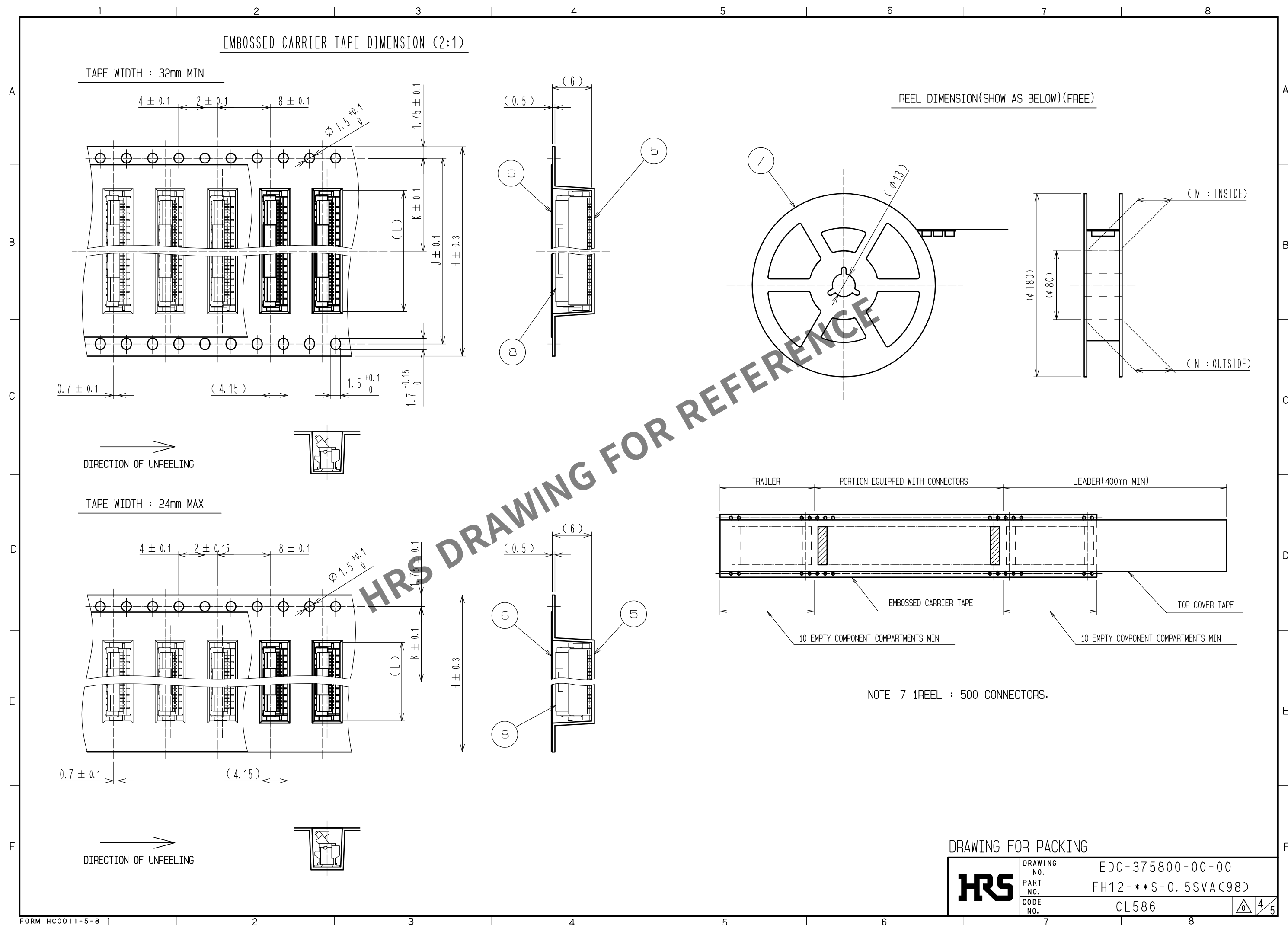
- Pin pitch: 0.65 ± 0.05
- Pin width: 1.8 ± 0.1
- Overall width: 4.5 ± 0.1
- Distance from centerline to first/last pins: 0.5 ± 0.05
- Total width: $D \pm 0.1$
- Pin labels: NO. 1 CONTACT, NO. 2 CONTACT
- Coordinate system: Y (vertical), X (horizontal)
- Pin numbering: $(n+1)/2 \times$ and $(n-1)/2 \times$
- PCB Mounting Pattern image: Indicated by a dashed line and arrow.



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

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 NO.	EDC-375800-00-00		
	PART NO.	FH12-**S-0.5SVA(98)		
	CODE NO.	CL586		$\frac{3}{5}$



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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 NO.	EDC-375800-00-00		
	PART NO.	FH12-**S-0.5SVA(98)		
	CODE NO.	CL586		5