



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



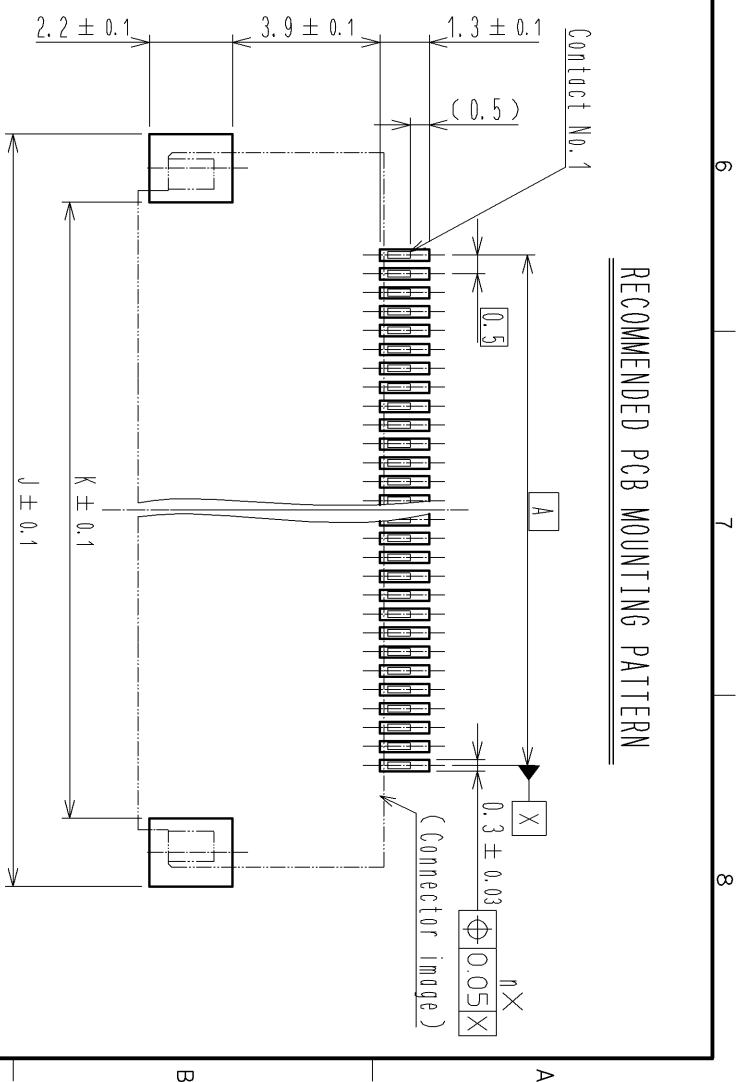
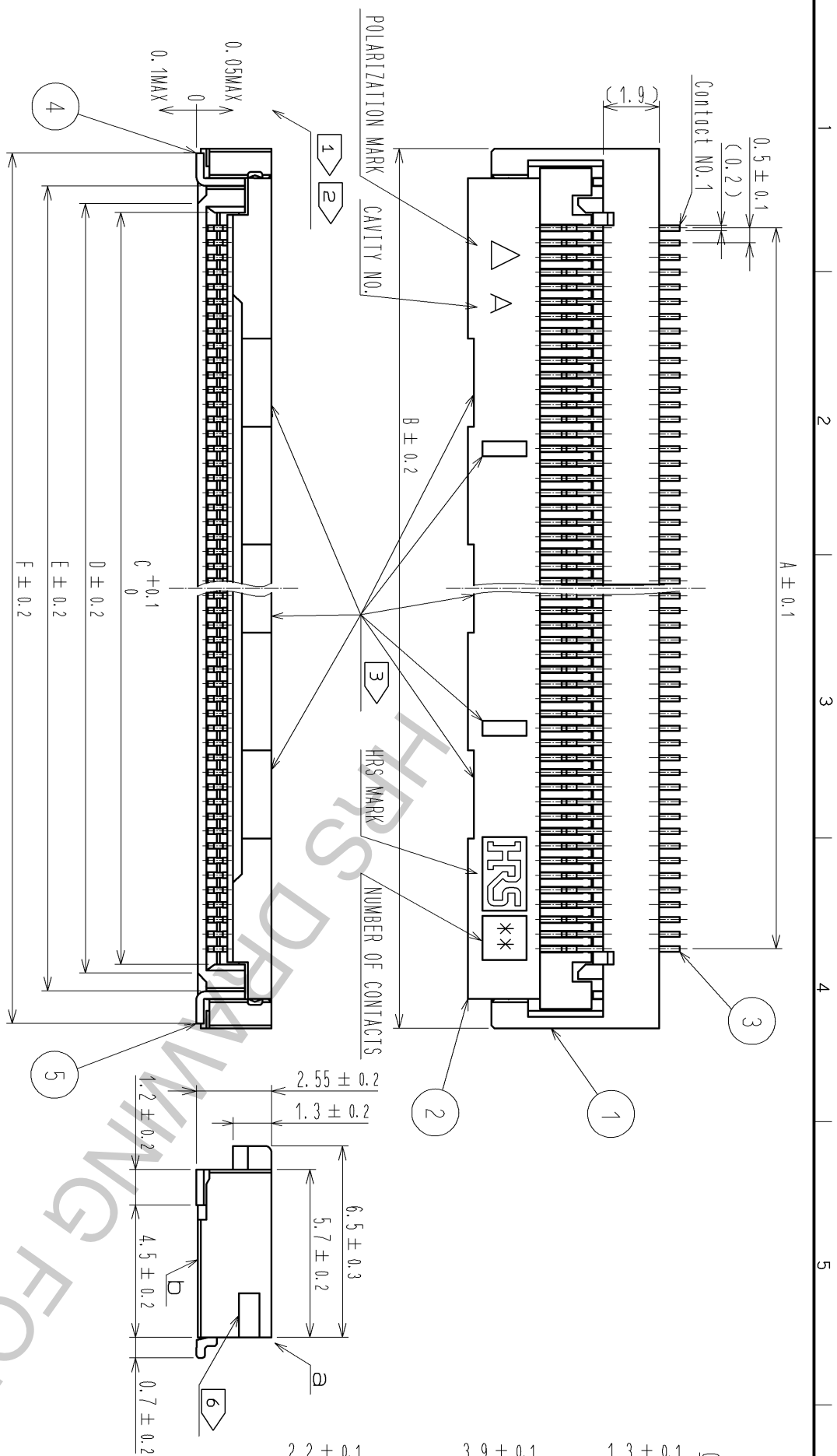
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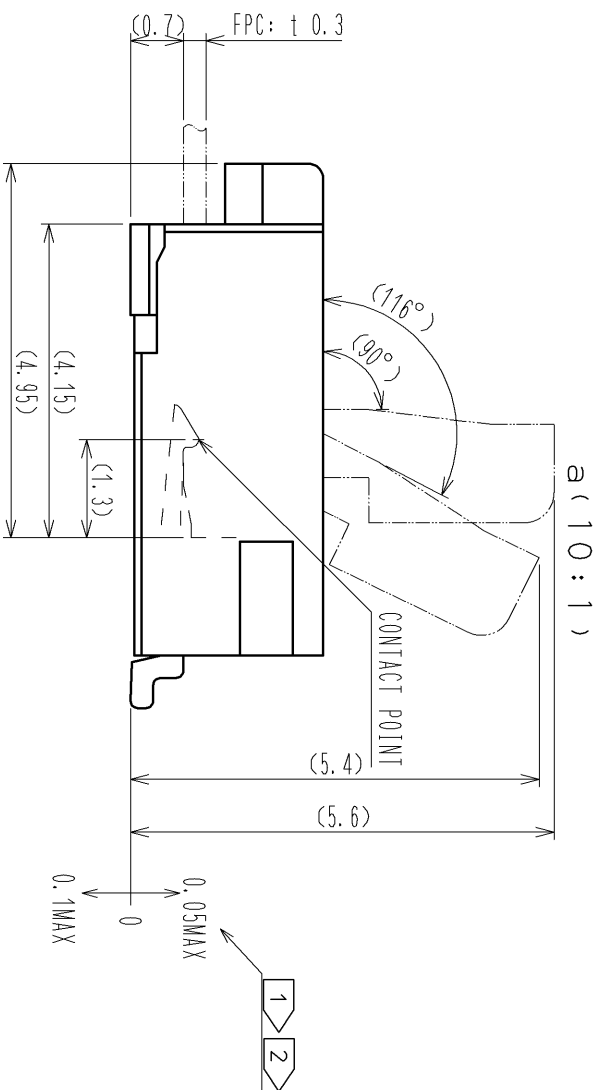
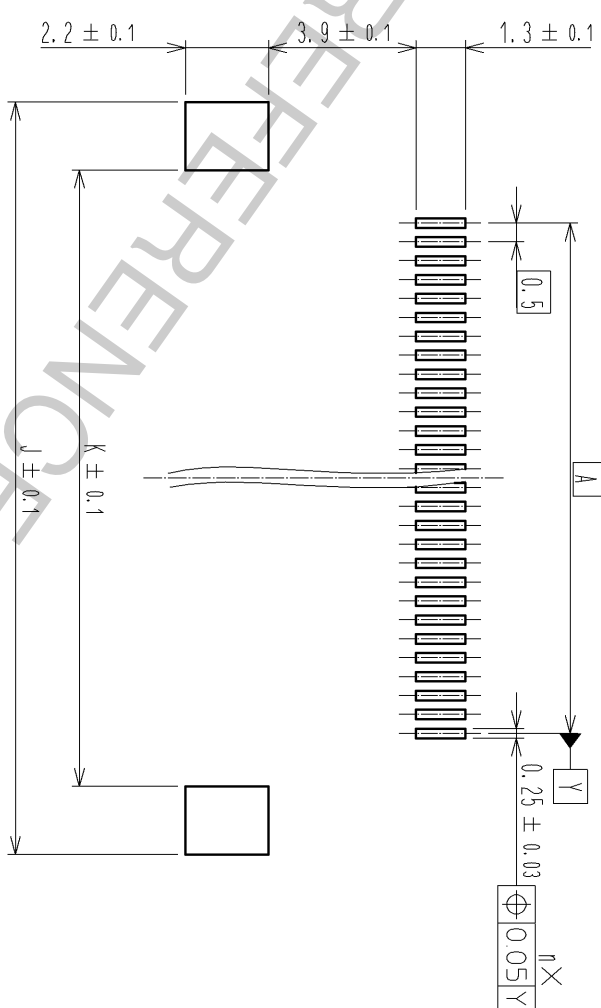




RECOMMENDED PCB MOUNTING PATTERN

RECOMMENDED STENCIL PATTERN

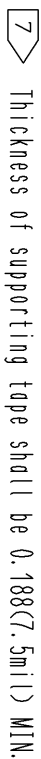
(RECOMMENDED STENCIL THICKNESS : $t=0.15$)



- NOTES
- 1 Lead CO-PLANARITY including reinforced metal fittings shall be 0.1 MAX.
 - 2 Dimension: from reference b.
 - 3 Indicates notches or holes to prevent sink marks. The design and the location are discretionary, depending on the number of contacts.
 - 4 This product satisfies halogen free requirements defined as 900ppm maximum chlorine, 900ppm maximum bromine, and 1500ppm maximum total of chlorine and bromine.
 - 5 'n' represents the number of contacts.
 - 6 Indicates notches for attachment dust cover.
- FH28 series : without notches.
FH28D series : with notches.
- There is no difference in performance between FH28 series and FH28D series.

5	BRASS	TIN PLATING 1μmMIN OVER NICKEL 1μmMIN		9	(CONNECTOR)	
4	BRASS	TIN PLATING 1μmMIN OVER NICKEL 1μmMIN		8	POLYSTYRENE	
3	PHOSPHOR BRONZE	GOLD PLATING 0.05μmMIN OVER NICKEL 1μmMIN		7	POLYESTER	
2	LCP	(BLACK) UL94V-0		6	POLYSTYRENE	
1	LCP	(GRAY) UL94V-0				
NO.	MATERIAL	FINISH . REMARKS		NO.	MATERIAL	FINISH . REMARKS
UNITS		SCALE	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED
mm		5 : 1				DATE
		APPROVED : HS. SAKAMOTO	13. 09. 20	DRAWING NO.	EDC3-353836-01	
		CHECKED : HS. SAKAMOTO	13. 09. 20	PART NO.	FH28-*S-0.5SH(C05)	
		DESIGNED : RT. IKEDA	13. 09. 19	CODE NO.	FH280-*S-0.5SH(C05)	
		DRAWN : RT. IKEDA	13. 09. 19		CL586	
						 1/4

HIROSE
ELECTRIC
CO., LTD.



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 7 mil 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



PART NO.	CODE NO.	Number of contact	DIMENSION TABLE OF CONNECTOR, FPC, FFC, LAND PATTERN AND STENCIL PATTERN										DIMENSION TABLE OF DRAWING FOR PACKING									
			A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	T	S		
FH28-10S-0.5SH(05)	CL586-1861-4-05	10	4.5	9.9	5.57	6.15	7.35	9.58	5.5	7.1	10.6	7	5.5	10.3	11.5	-	24	25.4	29.4	11.3		
FH28-15S-0.5SH(05)	CL586-1868-3-05	15	7	12.4	8.07	8.65	9.85	12.08	8	9.6	13.1	9.5	8	12.8	11.5	-	24	25.4	29.4	13.8		
FH28D-20S-0.5SH(05)	CL586-1823-5-05	20	9.5	14.9	10.57	11.15	12.35	14.58	10.5	12.1	15.6	12	10.5	15.3	11.5	-	24	25.4	29.4	16.3		
FH28D-28S-0.5SH(05)	CL586-1835-4-05	28	13.5	18.9	14.57	15.15	16.35	18.58	14.5	16.1	19.6	16	14.5	19.3	14.2	28.4	32	33.4	37.4	20.3		
FH28D-30S-0.5SH(05)	CL586-1827-6-05	30	14.5	19.9	15.57	16.15	17.35	19.58	15.5	17.1	20.6	17	15.5	20.3	14.2	28.4	32	33.4	37.4	21.3		
FH28-40S-0.5SH(07)	CL586-1803-8-07	40	19.5	24.9	20.57	21.15	22.35	24.58	20.5	22.1	25.6	22	20.5	25.3	20.2	40.4	44	45.4	49.4	-		
FH28-45S-0.5SH(05)	CL586-1848-6-05	45	22	27.4	23.07	23.65	24.85	27.08	23	24.6	28.1	24.5	23	27.8	20.2	40.4	44	45.4	49.4	28.8		
FH28-50S-0.5SH(05)	CL586-1801-2-05	50	24.5	29.9	25.57	26.15	27.35	29.58	25.5	27.1	30.6	27	25.5	30.3	20.2	40.4	44	45.4	49.4	-		
FH28-55S-0.5SH(05)	CL586-1800-0-05	55	27	32.4	28.07	28.65	29.85	32.08	28	29.6	33.1	29.5	28	32.8	20.2	40.4	44	45.4	49.4	-		
FH28-60S-0.5SH(05)	CL586-1811-6-05	60	29.5	34.9	30.57	31.15	32.35	34.58	30.5	32.1	35.6	32	30.5	35.3	26.2	52.4	56	57.4	61.4	-		
FH28D-64S-0.5SH(05)	CL586-1813-1-05	64	31.5	36.9	32.57	33.15	34.35	36.58	32.5	34.1	37.6	34	32.5	37.3	26.2	52.4	56	57.4	61.4	-		
FH28D-68S-0.5SH(05)	CL586-1819-8-05	68	33.5	38.9	34.57	35.15	36.35	38.58	34.5	36.1	39.6	36	34.5	39.3	26.2	52.4	56	57.4	61.4	-		
FH28D-74S-0.5SH(05)	CL586-1828-9-05	74	36.5	41.9	37.57	38.15	39.35	41.58	37.5	39.1	42.6	39	37.5	42.3	26.2	52.4	56	57.4	61.4	43.3		

①① : The specification of (07) is applied to FH28-40S-0.5SH.

DRAWING NO.		EDC3-353836-01	
PART NO.	FH28-*S-0.5SH(05)		
CODE NO.	CL586		
HRS		△4/4	