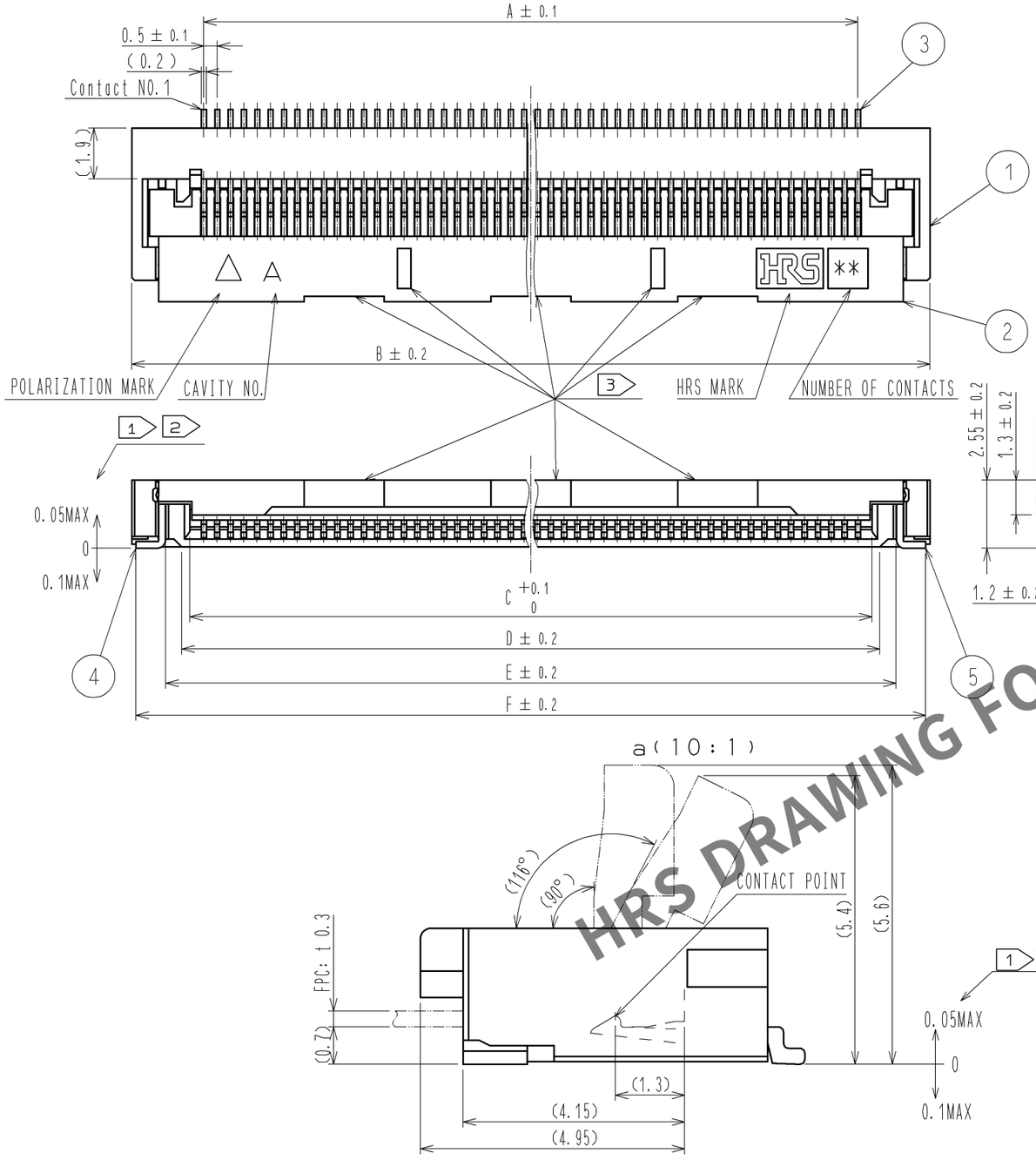
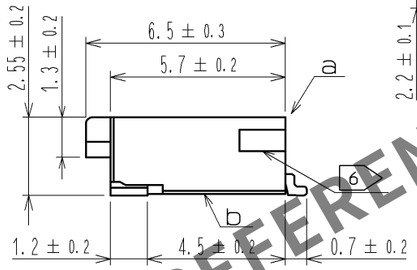
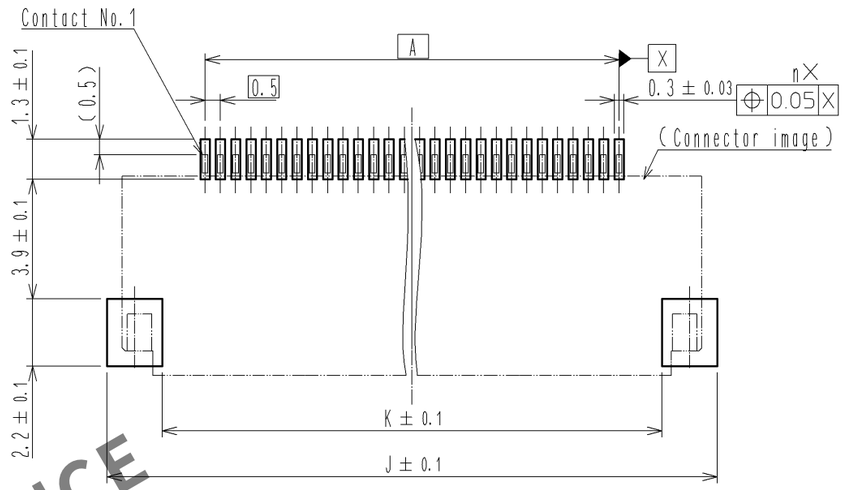
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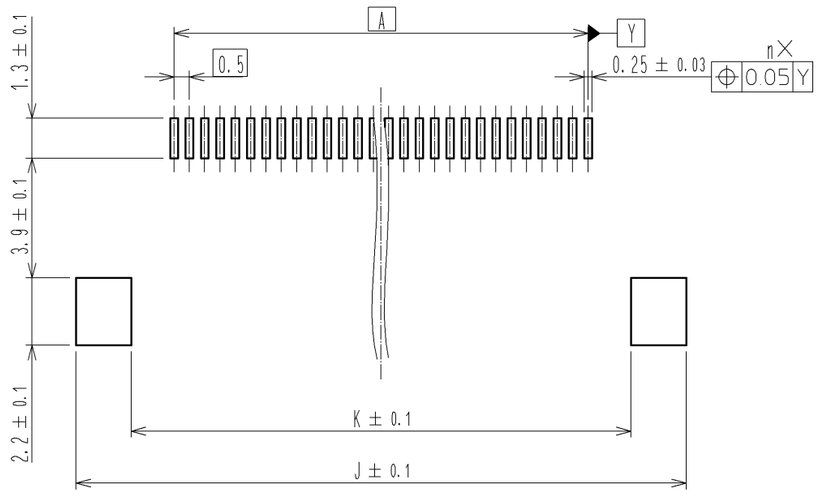


RECOMMENDED PCB MOUNTING PATTERN



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.

NO.	MATERIAL	FINISH , REMARKS	NO.	MATERIAL	FINISH , REMARKS
5	BRASS	TIN PLATING 1㎛MIN OVER NICKEL 1㎛MIN			
4	BRASS	TIN PLATING 1㎛MIN OVER NICKEL 1㎛MIN			
3	PHOSPHOR BRONZE	(CONTACT AREA, LEAD) GOLD PLATING 0.05㎛MIN OVER NICKEL 1㎛MIN.	9	(CONNECTOR)	
		(OTHER) NICKEL PLATING 1㎛MIN.	8	POLYSTYRENE	
2	LCP	(BLACK) UL94V-0	7	POLYESTER	
1	LCP	(GRAY) UL94V-0	6	POLYSTYRENE	

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

HIROSE ELECTRIC CO., LTD.

APPROVED	MO. ISHIDA	13.10.16
CHECED	HS. SAKAMOTO	13.10.16
DESIGNED	RT. IKEDA	13.10.11
DRAWN	NM. SANPEI	13.10.10

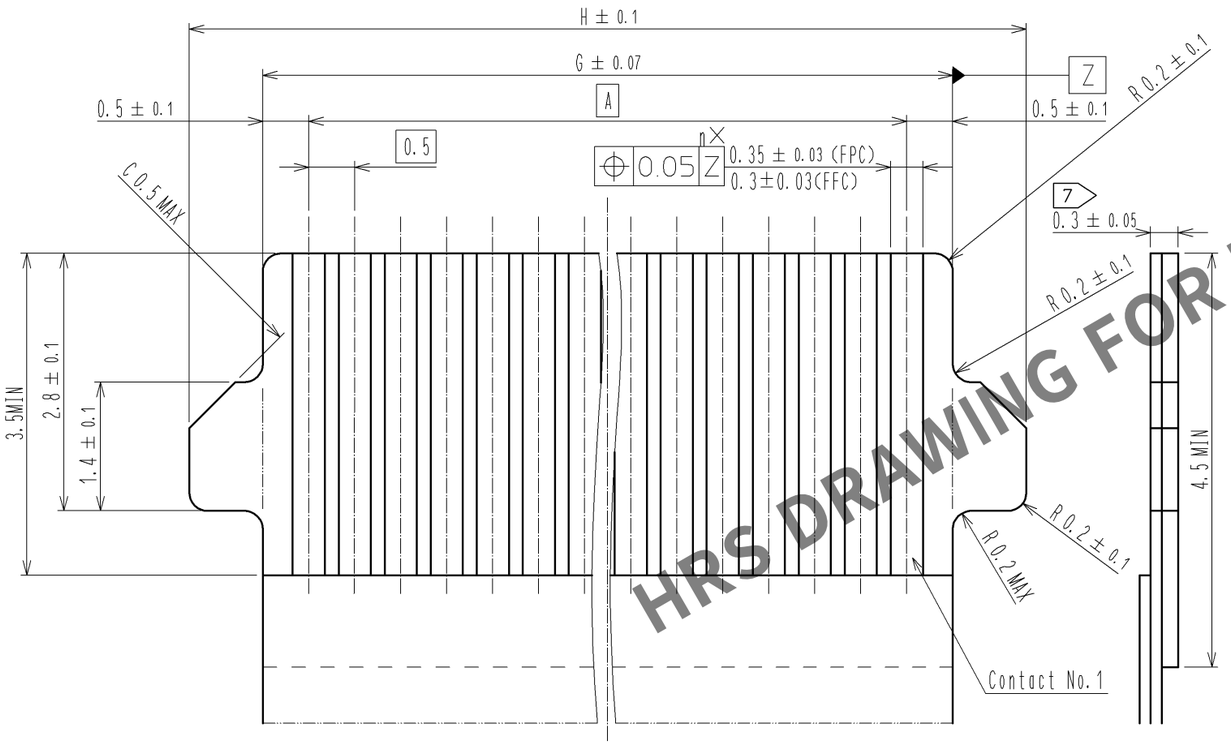
DRAWING NO.	EDC3-353836-02
PART NO.	FH28-*S-0.5SH(10) FH28D-*S-0.5SH(10)
CODE NO.	CL586

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HRS DRAWING FOR REFERENCE

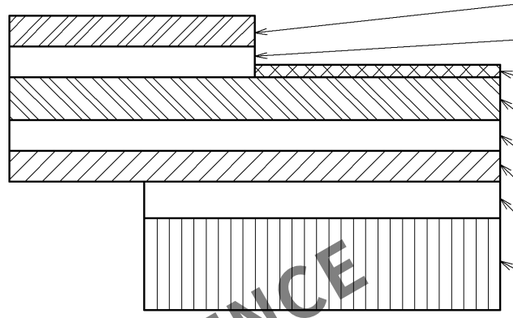
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RECOMMENDED FPC/FFC (15:1)



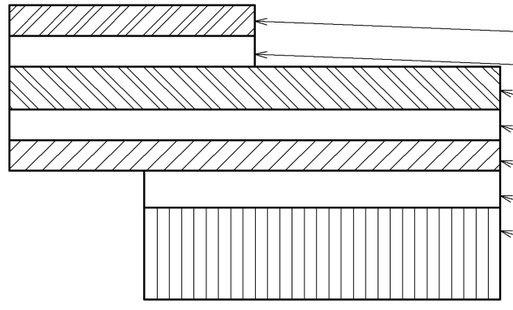
7 Thickness of supporting tape shall be 0.188(7.5mil) MIN.

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 7 mil thick	175

FFC CONFIGURATION (REFERENCE EXAMPLE) (SCALE:FREE)



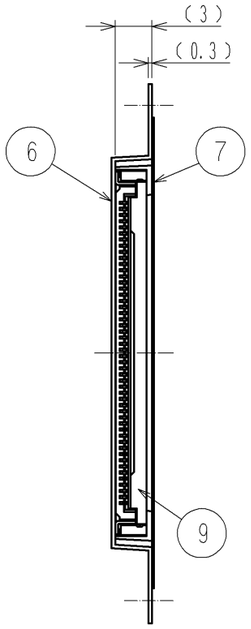
MATERIAL NAME	MATERIAL	THICKNESS(μm)
POLYESTER FILM		12
ADHESIVE	THERMOPLASTIC POLYESTER	30
GOLD PLATED, SOFT COPPER FILM		35
ADHESIVE	POLYESTER	30
POLYESTER		12
ADHESIVE	POLYESTER	30
STIFFENER FILM	POLYESTER	188

HRS DRAWING FOR REFERENCE

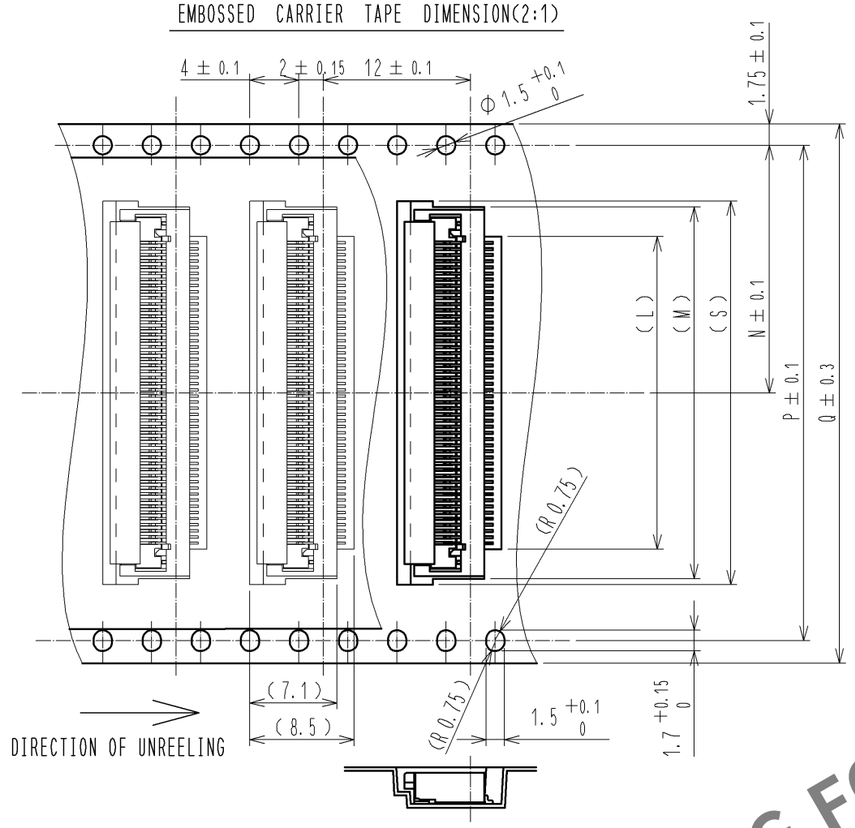
HRS	DRAWING NO.	EDC3-353836-02
	PART NO.	FH28-*S-0.5SH(10) FH28D-*S-0.5SH(10)
	CODE NO.	CL586

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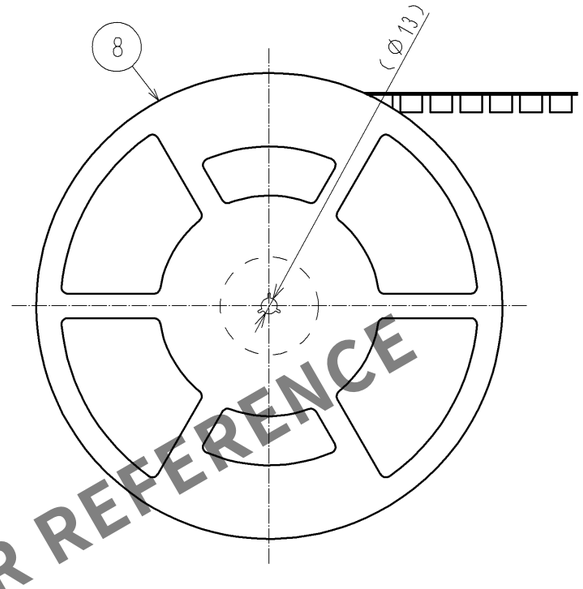
TAPE WIDTH:32mm MIN

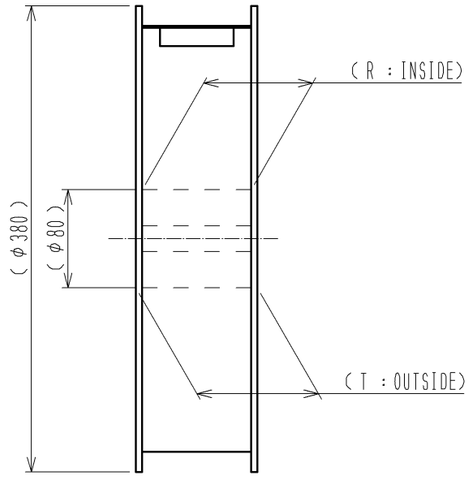


EMBOSSED CARRIER TAPE DIMENSION(2:1)

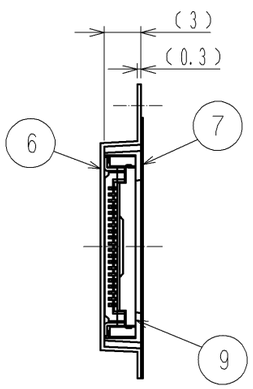


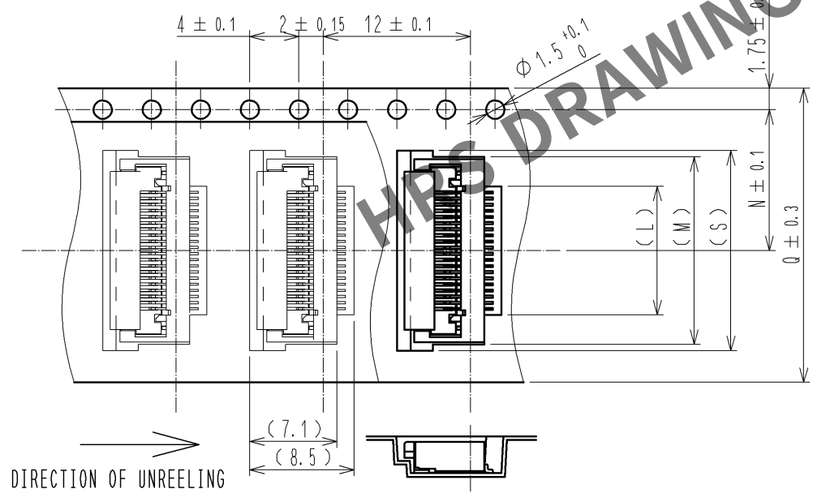
REEL DIMENSION (FREE)

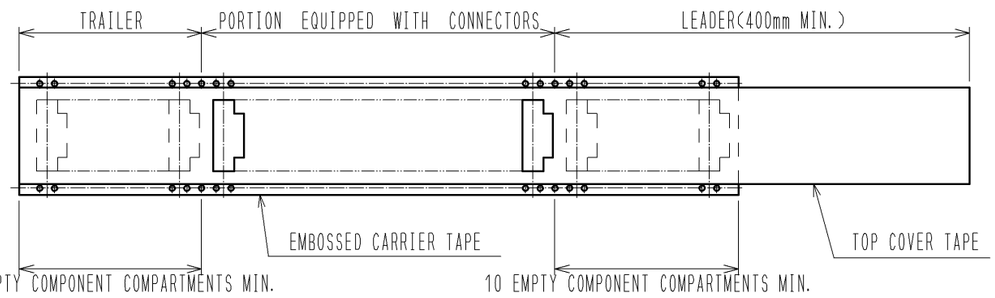




TAPE WIDTH:24mm MAX







HRS DRAWING FOR REFERENCE

NOTE 8 The dimensions in parentheses are for reference.
9 Per reel:2000 connectors.
10 Refer to JIS C 0806 (packaging of components for automatic handling).

DRAWING FOR PACKING

DRAWING NO.	EDC3-353836-02
PART NO.	FH28-*S-0.5SH(10) FH28D-*S-0.5SH(10)
CODE NO.	CL586

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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(10)	CL586-1861-4-10	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(10)	CL586-1868-3-10	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(10)	CL586-1823-5-10	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(10)	CL586-1835-4-10	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(10)	CL586-1827-6-10	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(10)	CL586-1803-8-10	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(10)	CL586-1848-6-10	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(10)	CL586-1801-2-10	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(10)	CL586-1800-0-10	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(10)	CL586-1811-6-10	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(10)	CL586-1813-1-10	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(10)	CL586-1819-8-10	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(10)	CL586-1828-9-10	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

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DRAWING NO.	EDC3-353836-02
PART NO.	FH28-*S-0.5SH(10) FH28D-*S-0.5SH(10)
CODE NO.	CL586