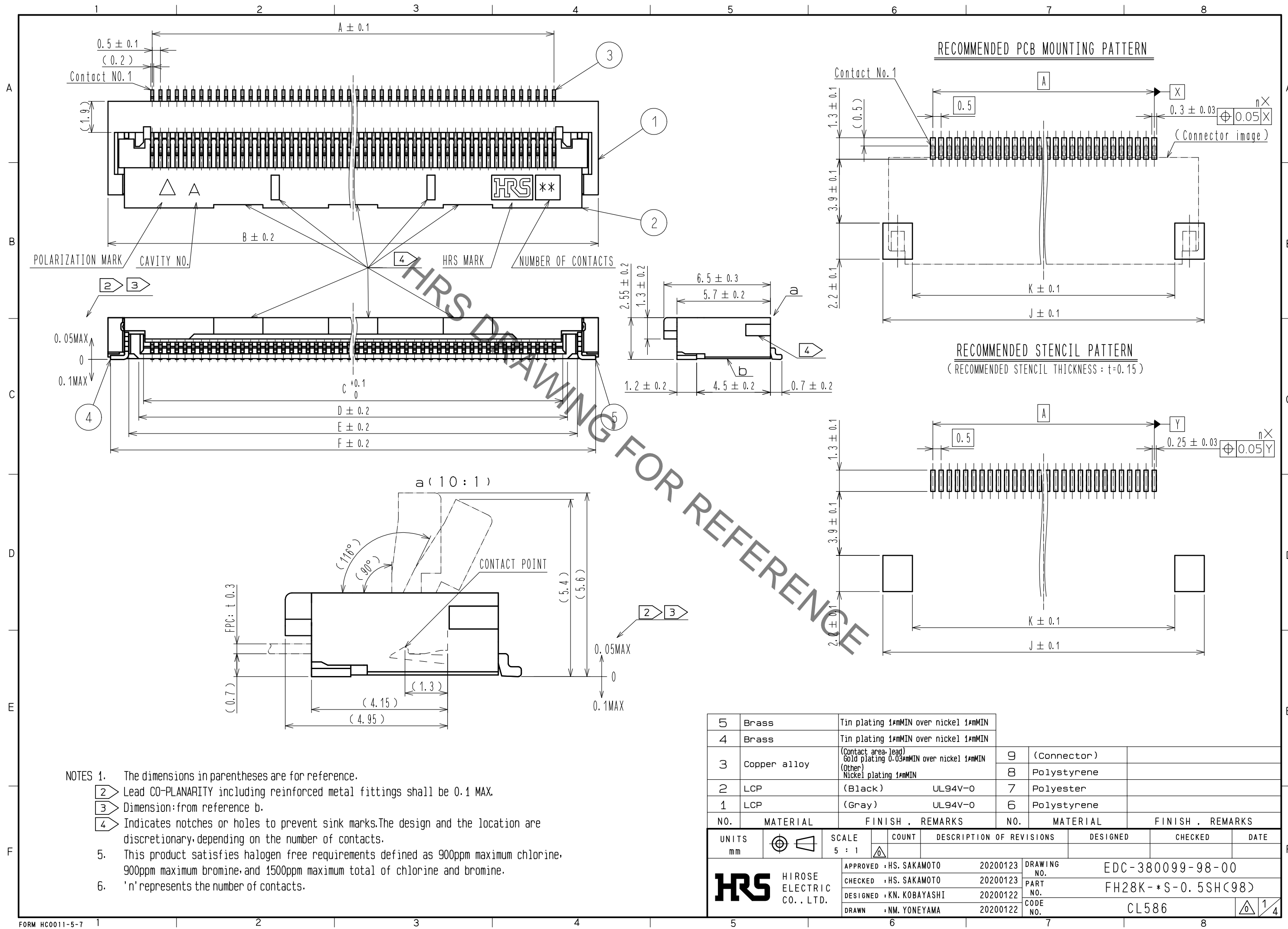


Oct.1.2021 Copyright 2021 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

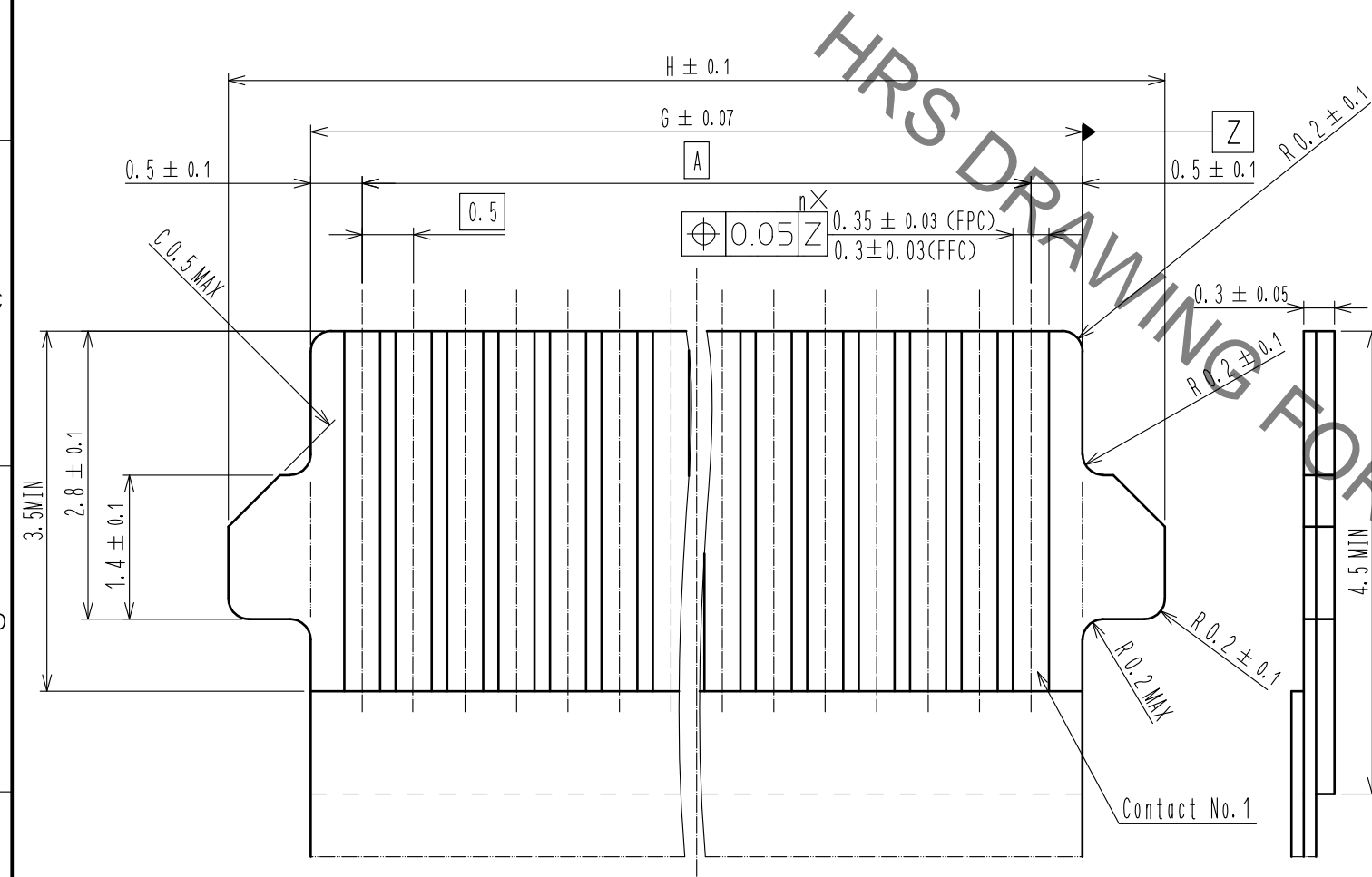


- NOTES 1. The dimensions in parentheses are for reference.
 2 Lead CO-PLANARITY including reinforced metal fittings shall be 0.1 MAX.
 3 Dimension: from reference b.
 4 Indicates notches or holes to prevent sink marks. The design and the location are discretionary, depending on the number of contacts.
 5. This product satisfies halogen free requirements defined as 900ppm maximum chlorine, 900ppm maximum bromine, and 1500ppm maximum total of chlorine and bromine.
 6. 'n' represents the number of contacts.

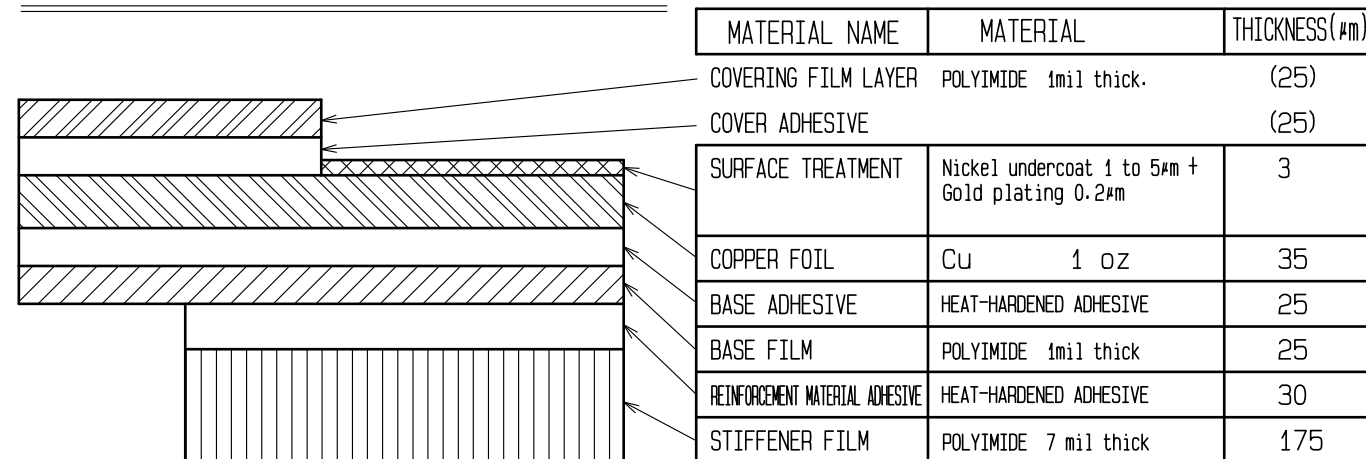
5	Brass	Tin plating 1#mMIN over nickel 1#mMIN						
4	Brass	Tin plating 1#mMIN over nickel 1#mMIN						
3	Copper alloy	(Contact area: lead) Gold plating 0.03#mMIN over nickel 1#mMIN (Other) Nickel plating 1#mMIN	9	(Connector)				
2	LCP	(Black)	7	Polystyrene				
1	LCP	(Gray)	6	Polystyrene				
NO.	MATERIAL	FINISH . REMARKS	NO.	MATERIAL	FINISH . REMARKS			
UNITS mm			SCALE 5 : 1	COUNT 	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
HRS HIROSE ELECTRIC CO., LTD.		APPROVED : HS. SAKAMOTO 20200123	DRAWING NO. EDC-380099-98-00					
		CHECKED : HS. SAKAMOTO 20200123	PART NO. FH28K-*S-0.5SH(98)					
		DESIGNED : KN. KOBAYASHI 20200122	CODE NO. CL586					
		DRAWN : NM. YONEYAMA 20200122						

Oct.1.2021 Copyright 2021 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

RECOMMENDED FPC/FFC (15:1)

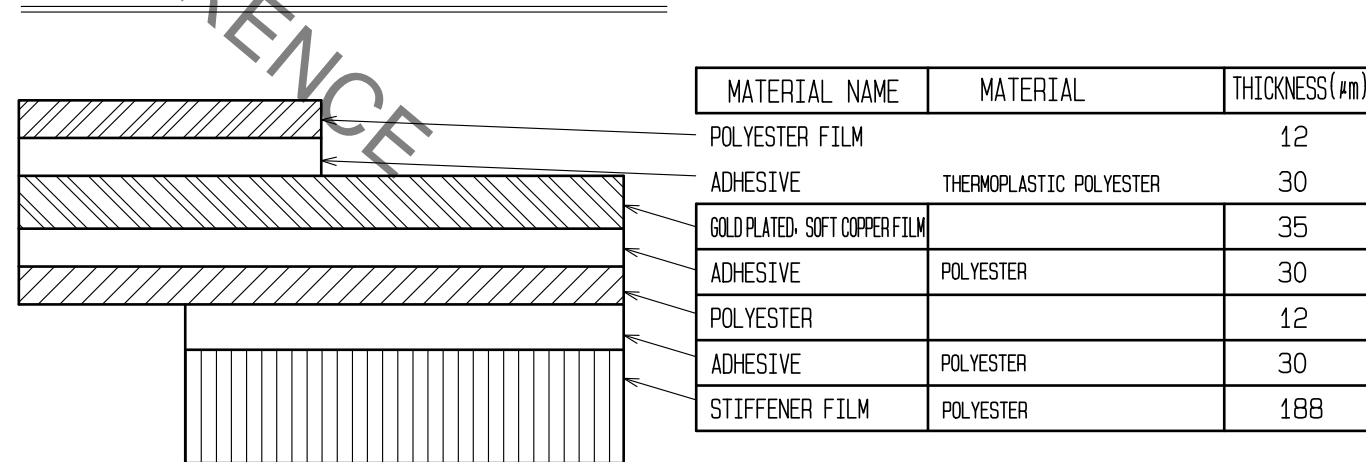


FPC CONFIGURATION (REFERENCE EXAMPLE) (SCALE:FREE)



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 7 mil thick	175

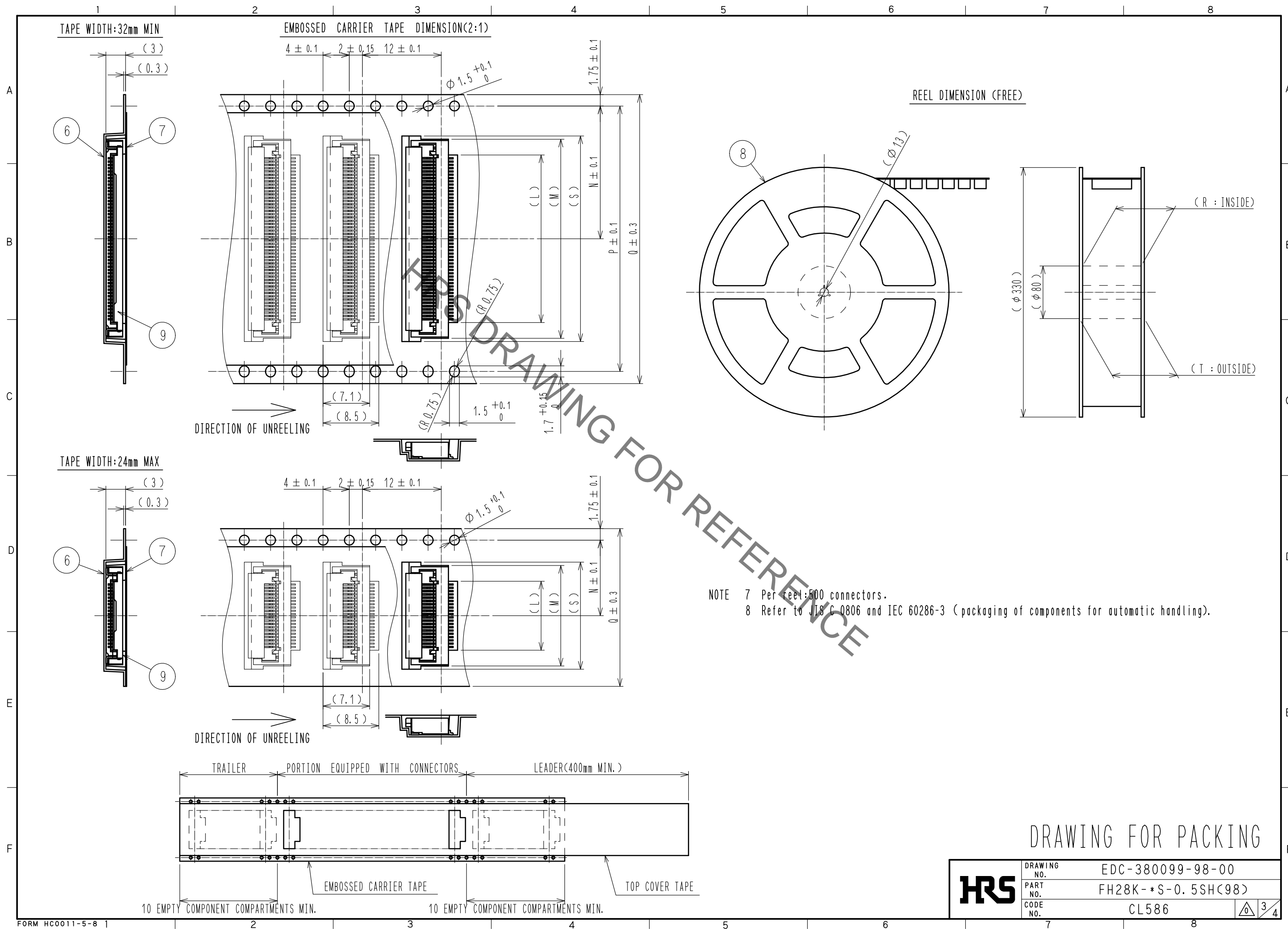
FFC CONFIGURATION (REFERENCE EXAMPLE) (SCALE:FREE)



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 NO.	EDC-380099-98-00
	PART NO.	FH28K-*S-0.5SH(98)
	CODE NO.	CL586
		2/4

Oct.1.2021 Copyright 2021 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
 In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.



DRAWING FOR PACKING

HRS	DRAWING NO.	EDC-380099-98-00
	PART NO.	FH28K-*S-0.5SH(98)
	CODE NO.	CL586
		\triangle 3/4

Oct.1.2021 Copyright 2021 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
 In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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
FH28K-10S-0.5SH(98)	CL586-1876-0-98	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
FH28K-15S-0.5SH(98)	CL586-1883-0-98	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
FH28K-20S-0.5SH(98)	CL586-1879-0-98	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
FH28K-28S-0.5SH(98)	CL586-1880-0-98	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
FH28K-30S-0.5SH(98)	CL586-1877-0-98	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
FH28K-40S-0.5SH(98)	CL586-1878-0-98	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	-
FH28K-45S-0.5SH(98)	CL586-1884-0-98	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
FH28K-50S-0.5SH(98)	CL586-1875-0-98	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	-
FH28K-55S-0.5SH(98)	CL586-1881-0-98	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	-
FH28K-60S-0.5SH(98)	CL586-1872-0-98	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	36.3
FH28K-64S-0.5SH(98)	CL586-1882-0-98	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	-
FH28K-68S-0.5SH(98)	CL586-1873-0-98	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	40.3
FH28K-74S-0.5SH(98)	CL586-1885-0-98	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

HRS	DRAWING NO.	EDC-380099-98-00
	PART NO.	FH28K-*S-0.5SH(98)
	CODE NO.	CL586
		4/4