

MATERIAL TABLE

PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	LCP RESIN GLASS REINFORCED (UL94V–0)	1	COLOR : BLACK (HALOGEN FREE)
2	CONTACT		n	PLATING : SEE PLATING OPTION (LEAD FREE)
3	MOUNTING PLATE	PHOSPHOR BRONZE	2	PLATING : MATTE TIN 1.5um min (LEAD FREE) NICKEL UNDER PLATING 1.27um min.

n : NO. OF CONTACTS

NOTES

1. THIS PRODUCT IS THE LOWER CONTACT TYPE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPES WITH AUTOMATIC MOUNTING (SMT).

2. FLATNESS OF CONTACT TERMINAL AND MOUNTING PLATE TO HOUSING MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.

3. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS47-0004.

4. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.

5 CATALOG NUMBER STRUCTURE IS AS FOLLOWINGS

J. CATALUG NUMBER STRUCTURE IS AS FULLOWINGS.						HFW_	_R–1S	TH1LF		BLANK
<u>HFW (n) R</u>	1 ST A H1LF							 TZH1L		Z
SERIES NAME						HFW_	_R-15	TAH1L	_F	А
NO. OF CONTACT						HFW_	_R-15	TBH1L	_F	В
RIGHT ANGLE TYPE						HFW_	_R-15	TGH1L	_F	G
LOWER CONTACT TYPE FOR FPC/FFC										
FOR AUTOMATIC MOUNTING (SMT)			Πα	t'l. code			surfo	ice /	/toler	rance
PLATING OPTION					_TABLI		ISO 1)6 ISO 1101
1.27um min. Ni UNDER PLATING FOR ALL OPTIONS			ltr	ecn no				ces unless		ise specified
FINISH PLATING : REFER TO PLATING OPTION TABLE			A			2018-10-18		25		±0.2</th
PACKAGING OPTION			В	ELX-J-3275	53 S.W. 2	2019-02-22	2	linea		X/±0.2
REFER TO SHEET2					_		0°±2		_	XX/±0.2
HALOGEN AND LEAD FREE							dr	S.WATAN		2019-02-22
							engr	S.WATAN		2019-02-22
								S-H.TI		2019-02-25
							appd	Y.KAME	.DA	2019-02-25
			she		vision	B B	B	B B	+	
			ind	ex sn	eet	1 2	3	4 5		
1	2	3					4			
		PDS: Re	v:B ST	ATUS:Rele	ased	Printe	d: Feb	28, 2019		

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CAT. NO. & DIMENSIONS

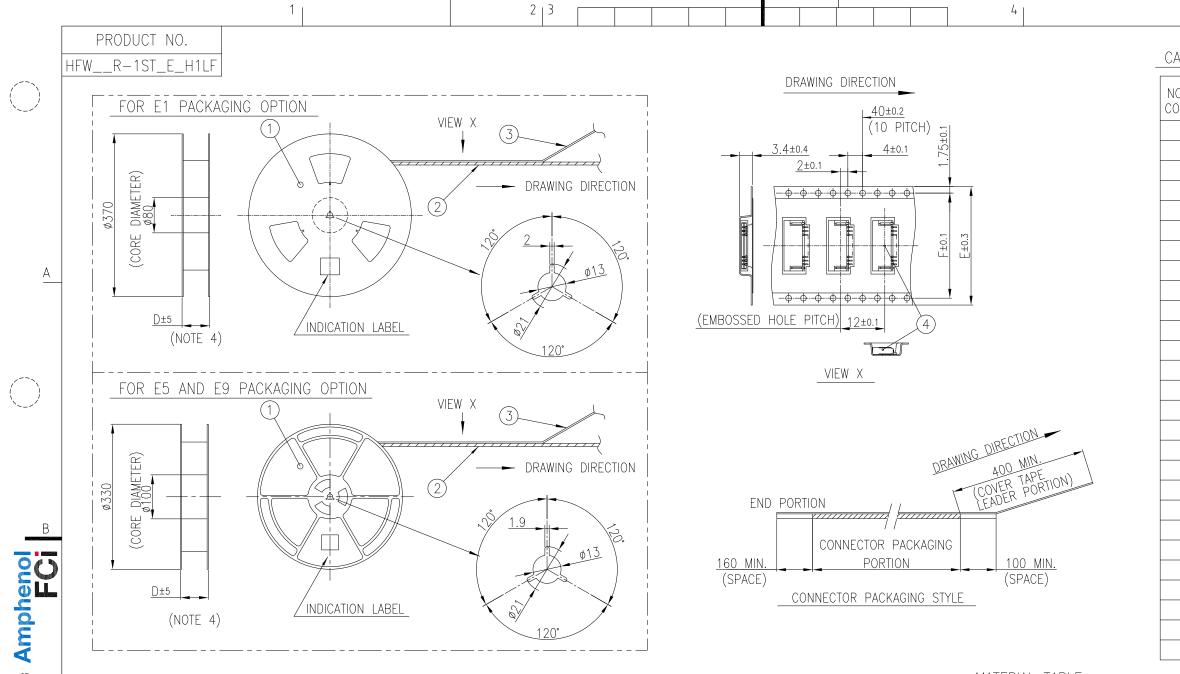
				NO. OF				DI	MENSIO	NS	
				CONT (r		CAT. NC).	A	В	С	
				4	HFW4R-	-1ST	_H1LF	6.6	3	5.14	
				5	HFW5R-		H1LF	7.6	4	6.14	
				6	HFW6R-		H1LF	8.6	5	7.14	
				7	HFW7R-		H1LF	9.6	6	8.14	
				8	HFW8R-		H1LF	10.6	7	9.14	
				9	HFW9R-		H1LF	11.6	8	10.14	
				10	HFW10R		H1LF	12.6	9	11.14	
				11	HFW11R		H1LF	13.6	10	12.14	
				12	HFW12R		H1LF	14.6	11	13.14	
				13	HFW13R		H1LF	15.6	12	14.14	
				14	HFW14R		H1LF	16.6	13	15.14	
				15	HFW15R		H1LF	17.6	14	16.14	
				16	HFW16R		H1LF	18.6	15	17.14	
				17	HFW17R		H1LF	19.6	16	18.14	
				18	HFW18R		H1LF	20.6	17	19.14	
				19	HFW19R		H1LF	20.0	18	20.14	
				20	HFW20R		H1LF	21.0	19	21.14	
				20	HFW21R		H1LF	23.6	20	22.14	
				22	HFW22R		H1LF	24.6	20	23.14	
				23	HFW23R		H1LF	25.6	22	24.14	
				24	HFW24R		H1LF	26.6	23	25.14	
				25	HFW25R		H1LF	27.6	23	26.14	
				26	HFW26R		H1LF	28.6	25	27.14	
				27	HFW27R		H1LF	29.6	26	28.14	
				28	HFW28R		H1LF	30.6	27	29.14	
				29	HFW29R		H1LF	31.6	28	30.14	
				30	HFW30R		H1LF	32.6	20	31.14	
ידא וס)PTION TA						02.0	20		
r la li	ING C	DE HUN TF			I						1
	DUCT	NUMBER	PLATING	OPTION	CONTAC	CT PLAT	ING	TERM	IINAL PL	ATING	
PRO											
		TH1LF	BLA	١K	MATTE TIN	: 2um	min.	MATTE	TIN:2ι	um min.	
HFW_	R–1S	TH1LF TZH1LF		١K	MATTE TIN MATTE THI			MATTE	TIN : 1ı	um min.	
HFW_ HFW_	.R–1S .R–1S			NK		n tin p	LATING	MATTE		um min.	
HFW_ HFW_ HFW_	.R–1S .R–1S .R–1S	TZH1LF	Z	NK	MATTE THI	N TIN P 3um mi	LATING n.	MATTE GOLD :	TIN : 1ι 0.05ur	um min.	
HFW_ HFW_ HFW_ HFW_	.R—1S .R—1S .R—1S .R—1S	TZH1LF TAH1LF	Z A B	NK	MATTE THI GOLD : 0.3 GOLD : 0.3 GOLD : 0.0	N TIN P 3um mi 3um mi	LATING n. n. nin.	MATTE GOLD : MATTE	TIN : 1ι 0.05ur	um min. n min. um min.	
HFW_ HFW_ HFW_ HFW_	.R—1S .R—1S .R—1S .R—1S	TZH1LF TAH1LF TBH1LF TGH1LF	Z A B		MATTE THI GOLD : 0.3 GOLD : 0.3 GOLD : 0.0	N TIN P 3um mi 3um mi 05um n TH Ni D	LATING n. n. nin.	MATTE GOLD : MATTE GOLD :	TIN : 1ι 0.05ur TIN : 1ι 0.05ur	um min. n min. um min. n min.	
HFW_ HFW_ HFW_ HFW_ HFW_	R-1S R-1S R-1S R-1S R-1S surf ISO 1	TZH1LF TAH1LF TBH1LF TGH1LF ace J302	Z A B G toleranc	е рг 0 1101	MATTE THI GOLD : 0 GOLD : 0 GOLD : 0.0 WI	N TIN P 3um mi 3um mi 05um n TH Ni D produ	LATING n. nin. AM	MATTE GOLD : MATTE GOLD :	TIN : 1ι 0.05ur TIN : 1ι	um min. n min. um min. n min.	
HFW_ HFW_ HFW_ HFW_ HFW_	R-1S R-1S R-1S R-1S R-1S surf ISO 1 tolera	TZH1LF TAH1LF TBH1LF TGH1LF ace	Z A B G toleranc ISO 406 IS otherwise sp	е рг <u>0 1101</u> ресified	MATTE THI GOLD : 0.3 GOLD : 0.4 GOLD : 0.4 WI	N TIN P 3um mi 3um mi 05um n TH Ni D	LATING n. nin. AM uct fam	MATTE GOLD : MATTE GOLD : ily	TIN : 1 0.05ur TIN : 1 0.05ur 58NF	um min. n min. um min. n min.	
HFW_ HFW_ HFW_ HFW_ HFW_ HFW_ te	R-1S R-1S R-1S R-1S R-1S surf ISO 1 tolera	TZH1LF TAH1LF TBH1LF TGH1LF ace 302	Z A B G toleranc ISO 406 IS otherwise sp O.X/±C	е рг 0 1101 ресіfied 0.2	MATTE THI GOLD : 0 GOLD : 0 GOLD : 0.0 WI	N TIN P 3um mi 3um mi 05um n TH Ni D produ title	LATING n. nin. AM uct fam 1mm SI	MATTE GOLD : MATTE GOLD : iLy PACING	TIN : 1 0.05ur TIN : 1 0.05ur 58NF SMT C(um min. n min. um min. n min.	
HFW_ HFW_ HFW_ HFW_ HFW_	R-1S R-1S R-1S R-1S R-1S surf ISO 1 tolera	TZH1LF TAH1LF TBH1LF TGH1LF ace 1302 es unless es linear	Z A B G toleranc ISO 406 IS otherwise sp	е рг о 1101 ресіfied 0.2 0.2	MATTE THI GOLD : 0.3 GOLD : 0.4 GOLD : 0.4 WI ojection MM	N TIN P 3um mi 3um mi 05um n TH Ni D produ title	LATING n. nin. AM uct fam 1mm SI	MATTE GOLD : MATTE GOLD : iLy PACING	TIN : 1 0.05ur TIN : 1 0.05ur 58NF SMT C(um min. n min. um min. n min.	
HFW_ HFW_ HFW_ HFW_ HFW_ HFW_ te	R-1S R-1S R-1S R-1S R-1S surf ISO 1 tolera	TZH1LF TAH1LF TBH1LF TGH1LF ace 1302 es unless es linear	Z A B G toleranc ISO 406 IS otherwise sp 0.X/±C 0.XX/± 0.XX/±	е рг о 1101 ресіfied 0.2 0.2	MATTE THI GOLD : 0.3 GOLD : 0.4 GOLD : 0.4 WI	N TIN P 3um mi 3um mi 05um n TH Ni D produ title	LATING n. nin. AM uct fam 1mm SI	MATTE GOLD : MATTE GOLD : iLy PACING	TIN : 1u 0.05ur TIN : 1u 0.05ur 58NF SMT C(_R-1S	um min. n min. um min. n min.	LF)
HFW_ HFW_ HFW_ HFW_ HFW_ HFW_ te	R-1S R-1S R-1S R-1S R-1S ISO 1 tolera angl O°±2 dr engr	TZH1LF TAH1LF TBH1LF TGH1LF TGH1LF ace 302 es Linear S.WATANAA	Z A B G toleranc ISO 406 IS otherwise sp O.X/±C O.XX/± O.XXX/± O.XXX/± O.XXX/± O.XXX/± O.XXX/± O.XXX/±	ее рг 0 1101 ресіfied 0.2 — 0.2 — с0.2 sc -02-22 А	MATTE THI GOLD : 0.3 GOLD : 0.4 GOLD : 0.4 WI ojection MM ale 3:1	N TIN P 3um mi 3um mi 05um n TH Ni D produ title (dwg	LATING n. nin. AM uct fam 1mm SI (Cat. No. no	MATTE GOLD : MATTE GOLD : iLy PACING HFW	TIN : 11 0.05ur TIN : 11 0.05ur 58NF SMT CC _R-1S sheet	um min. n min. um min. n min. - - - - - - -	LF)
HFW_ HFW_ HFW_ HFW_ HFW_ HFW_ te	R-1S R-1S R-1S R-1S R-1S surf ISO 1 tolera angl 0°±2 dr engr chr	TZH1LF TAH1LF TBH1LF TGH1LF TGH1LF ace 302 es linear 2* S.WATANAA S-H.THIC	Z A B C C C C C C C C C C C C C C C C C C	еерг 0 1101 0.2 0.2 0.2 с0.2 sc 02–22 02–22 02–25	MATTE THI GOLD : 0.3 GOLD : 0.4 GOLD : 0.4 WI ojection MM ale 3:1	N TIN P 3um mi 3um mi D5um n TH Ni D produ title (dwg	LATING n. nin. AM uct fam 1mm SI (Cat. No. no 1 C	MATTE GOLD : MATTE GOLD : iLy PACING HFW	TIN : 11 0.05ur TIN : 11 0.05ur 58NF SMT C(_R-1S sheet 903	um min. n min. um min. n min. n min.	LF)
HFW_ HFW_ HFW_ HFW_ HFW_ hFW_ 3-10-18 0-02-22	R-1S R-1S R-1S R-1S Surf ISO 1 tolera angl O°±2 dr engr chr appd	TZH1LF TAH1LF TBH1LF TGH1LF TGH1LF ace 1302 es Linear 2* S.WATANAA S.WATANAA S.WATANAA S.H.THIC	Z A B C C C C C C C C C C C C C C C C C C	ее рг 0 1101 ресіfied 0.2 — 0.2 — с0.2 sc -02-22 А	MATTE THI GOLD : 0.3 GOLD : 0.4 GOLD : 0.4 WI ojection MM ale 3:1	N TIN P 3um mi 3um mi 05um n TH Ni D produ title (dwg	LATING n. nin. AM uct fam 1mm SI (Cat. No. no 1 C	MATTE GOLD : MATTE GOLD : iLy PACING HFW	TIN : 11 0.05ur TIN : 11 0.05ur 58NF SMT C(_R-1S sheet 903	um min. n min. um min. n min. n min.	LF)
HFW_ HFW_ HFW_ HFW_ HFW_ HFW_ te	R-1S R-1S R-1S R-1S R-1S surf ISO 1 tolera angl 0°±2 dr engr chr	TZH1LF TAH1LF TBH1LF TGH1LF TGH1LF ace 302 es linear 2* S.WATANAA S-H.THIC	Z A B C C C C C C C C C C C C C C C C C C	еерг 0 1101 0.2 0.2 0.2 с0.2 sc 02–22 02–22 02–25	MATTE THI GOLD : 0.3 GOLD : 0.4 GOLD : 0.4 WI ojection MM ale 3:1	N TIN P 3um mi 3um mi D5um n TH Ni D produ title (dwg	LATING n. nin. AM uct fam 1mm SI (Cat. No. no 1 C	MATTE GOLD : MATTE GOLD : iLy PACING HFW	TIN : 11 0.05ur TIN : 11 0.05ur 58NF SMT C(_R-1S sheet 903	um min. n min. um min. n min. n min.	LF)

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PACKAGING OPTION TABLE

PRODUCT NUMBER	PACKAGING OPTION	REEL MATERIAL	REEL DIAMETER	CONNECTOR QUANTITY
HFW_R-1ST_E1H1LF	E1	CARDBOARD	ø370	2000 / REEL
HFW_R-1ST_E5H1LF	E5	PLASTIC	ø330	1500 / REEL
HFW_R-1ST_E9H1LF	E9	PLASTIC	ø330	500 / REEL

MATERIAL TABLE

PT. NO.	PARTS NAME	CAT. NO.		MATERIAL	COLOR
1	RFFI			CARDBOARD	WHITE
I	REEL			POLYSTYRENE	BLACK
2	EMBOSS TAPE			A PS or A-PET	TRANSPARENT
3	COVER TAPE		Æ	POLYESTER, POLYETHYLENE	TRANSPARENT
4	CONNECTOR	HFW_R-1STH	11LF	SEE SHEET 1	

- 1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPES WITH AUTOMATIC MOUNTING (SMT).
- SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSSED) TAPE AND REEL.
 D DIMENSION IS PORTION OF THE CORE.
- mat'l. code surface / tolerance SEE_TABLE ISO 1302 🗸 ISO 406 ISO 1101 ltr ecn no dr date tolerances unless otherwise specified 0.X/±0.5 В angles linear 0.XX/±0.5 0.XXX/±0.5 0°±5° S.WATANABE 2019-02-22 dr S.WATANABE 2019-02-22 engr chr S-H.THIO 2019-02-25 appd Y.KAMEDA 2019-02-25 sheet revision index sheet 4

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form: A3-2016-02-24

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PDS: Rev :B

STATUS:Released Printed: Feb 28, 2019

CAT. NO. & DIMENSIONS

10 05			DI	MENSIO	NS
IO. OF ONT (n)		CAT. NO.	D	F	F
4		4R-1ST_E_H1LF	28.4	24	·
5		5R-1ST_E_H1LF	28.4	24	
6		6R-1ST_E_H1LF	28.4	24	
7		 7R-1ST_E_H1LF	28.4	24	
8			28.4	24	
9	HFW	9R-1ST_E_H1LF	28.4	24	
10	HFW	10R-1ST_E_H1LF	28.4	24	
11	HFW	11R-1ST_E_H1LF	28.4	24	
12	HFW	12R-1ST_E_H1LF	28.4	24	
13	HFW	13R-1ST_E_H1LF	28.4	24	
14	HFW	14R-1ST_E_H1LF	28.4	24	
15	HFW	15R-1ST_E_H1LF	36.4	32	28.4
16	HFW	16R-1ST_E_H1LF	36.4	32	28.4
17	HFW	17R-1ST_E_H1LF	36.4	32	28.4
18	HFW	18R-1ST_E_H1LF	36.4	32	28.4
19	HFW	19R-1ST_E_H1LF	48.4	44	40.4
20	HFW	20R-1ST_E_H1LF	48.4	44	40.4
21	HFW	21R-1ST_E_H1LF	48.4	44	40.4
22	HFW	22R-1ST_E_H1LF	48.4	44	40.4
23	HFW	23R-1ST_E_H1LF	48.4	44	40.4
24	HFW	24R-1ST_E_H1LF	48.4	44	40.4
25	HFW	25R-1ST_E_H1LF	48.4	44	40.4
26	HFW	26R-1ST_E_H1LF	48.4	44	40.4
27	HFW	27R-1ST_E_H1LF	48.4	44	40.4
28	HFW	28R-1ST_E_H1LF	48.4	44	40.4
29	HFW	29R-1ST_E_H1LF	48.4	44	40.4
30	HFW	30R-1ST_E_H1LF	60.4	56	52.4
T. NO.		MATERIAL		COL	OR
		CARDBOARD		WH	ITE
		POLYSTYRENE	-	BLA	VCK

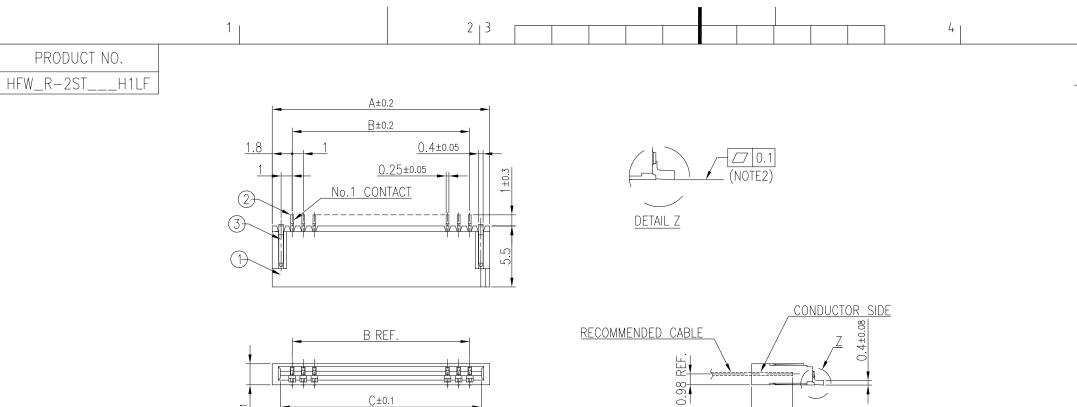
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projection	prod	luct	fam								
$\triangle -1$				L L	58NF	-					
	title	<u>ב</u>									
MM		1mm SPACING SMT CONNECTOR									
scale N/A		(Cat.No. HFWR-1ST_E_H1LF)									
	dwg	ПΟ			S	heet	2	of	5	size	
Amphenol FCi			10)14	99(03				Аз	
	type	2		CUST	OME	r df	RAW	NG			
0	5									6	

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MATERIAL TABLE

PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	LCP RESIN GLASS REINFORCED (UL94V–0)	1	COLOR : BLACK (HALOGEN FREE)
2	CONTACT		n	PLATING : SEE PLATING OPTION (LEAD FREE)
3	MOUNTING PLATE	PHOSPHOR BRONZE	2	PLATING : MATTE TIN 1.5um min. (LEAD FREE) NICKEL UNDER PLATING 1.27um min.

n : NO. OF CONTACT

3

PDS: Rev :B

<u>3.7 REF.</u>

NOTES

1. THIS PRODUCT IS THE UPPER CONTACT TYPE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPES WITH AUTOMATIC M

2. FLATNESS OF CONTACT TERMINAL AND MOUNTING PLATE TO HOUSING MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DR

3. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS47-0004.

4. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.

5. CATALOG NUMBER STRUCTURE IS AS FOLLOWINGS.

1.9±0.1

HFW (n) SERIES NAME NO. OF CONTACT RIGHT ANGLE TYPE UPPER CONTACT TYPE FOR FPC/FFC FOR AUTOMATIC MOUNTING (SMT) PLATING OPTION 1.27um min. Ni UNDER PLATING FOR ALL OPTI FINISH PLATING : REFER TO PLATING OPTION TA PACKAGING OPTION REFER TO SHEET4 HALOGEN AND LEAD FREE		
form: A3-2016-02-24 1	2	

	NO. OF				DI	MENSIOI	NS	
	CONT (n) CA	AT. NO		А	В	С	
	4	HFW4R-2	ST	_H1LF	6.6	3	5.14	
	5	HFW5R-2	ST	_H1LF	7.6	4	6.14	
	6	HFW6R-2	ST	_H1LF	8.6	5	7.14	
	7	HFW7R-2	ST	_H1LF	9.6	6	8.14	
	8	HFW8R-2	ST	_H1LF	10.6	7	9.14	
	9	HFW9R-2	ST	_H1LF	11.6	8	10.14	
	10	HFW10R-	2ST	H1LF	12.6	9	11.14	
	11	HFW11R-	2ST	H1LF	13.6	10	12.14	
E	12	HFW12R-	2ST_	H1LF	14.6	11	13.14	
_	13	HFW13R-	2ST_	H1LF	15.6	12	14.14	
	14	HFW14R-	2ST_	H1LF	16.6	13	15.14	
	15	HFW15R-	2ST_	H1LF	17.6	14	16.14	
	16	HFW16R-		H1LF	18.6	15	17.14	
	17	HFW17R-		H1LF	19.6	16	18.14	
	18	HFW18R-		H1LF	20.6	17	19.14	
	19	HFW19R-	2ST_	H1LF	21.6	18	20.14	
	20	HFW20R-	2ST_	H1LF	22.6	19	21.14	
	21	HFW21R-		H1LF	23.6	20	22.14	
	22	HFW22R-	2ST_	H1LF	24.6	21	23.14	
	23	HFW23R-	2ST_	H1LF	25.6	22	24.14	
	24	HFW24R-	2ST	H1LF	26.6	23	25.14	
	25	HFW25R-	2ST	H1LF	27.6	24	26.14	
	26	HFW26R-	2ST_	H1LF	28.6	25	27.14	
	27	HFW27R-		H1LF	29.6	26	28.14	
	28	HFW28R-	2ST	H1LF	30.6	27	29.14	
	29	HFW29R-	2ST	H1LF	31.6	28	30.14	
	30	HFW30R-			32.6	29	31.14	
PLATING OPTION TABLE	L							
_ FLATING OF HON TABLE							1	
PRODUCT NUMBER PLATING	OPTION	CONTACT	PLATI	NG	TERN	IINAL PL	.ATING	
HFW_R-2STH1LF BLA	JNK	MATTE TIN :	2um	min.	MATTE	TIN:2u	ım min.	
HFW_R-2STZH1LF Z	r -	MATTE THIN	TIN P	LATING	MATTE	TIN:1u	ım min.	
HFW_R-2STAH1LF A	١	GOLD : 0.3u	ım mi	n.	GOLD :	0.05um	n min.	
HFW_R-2STBH1LF E	}	GOLD : 0.3u	ım mi	n.	MATTE	TIN:1u	ım min.	
HFW_R-2STGH1LF	7	GOLD : 0.05 WITH	bum m H Ni D.		GOLD :	0.05um	n min.	
				I				
surface / toleran		ojection	produ	uct fam	ily	58NF		
_E ISO 1302 ∨ ISO 406 I date tolerances unless otherwise s			title					
0 X /+		MM		ای 1mm		SMT CC	ONNECTO	R
angles linear 0.xx/±	-0.2 -		(ΓH1L	
0°±2° 0.XXX/		ale 3:1			III ¥¥			,
	-02-22		dwg	ΠΟ		sheet	3 of 5	size
	-02-22 Ar -02-25	nphenol FCi		1 C	1499	903		A3
	-02-25		type		CUSTOM	ER DR	AWING	
4		5						6

						NO	OF			~	C	IMENSI	 DNS	
							IT (n)		CAT. NO).	A	В	С	
7							4	HFW4R-	2ST	H1LF	6.6	3	5.1	14
.1] 2)							5	HFW5R-	2ST	H1LF	7.6	4	6.1	14
-)							6	HFW6R-	2ST	H1LF	8.6	5	7.1	14
							7	HFW7R-	2ST	H1LF	9.6	6	8.1	14
							8	HFW8R-	2ST	H1LF	10.6	7	9.1	14
							9	HFW9R-	2ST	H1LF	11.6	8	10.1	4
							10	HFW10R-	-2ST_	H1LF	12.6	9	11.1	4
							11	HFW11R-	-2ST_	H1LF	13.6	10	12.1	4
CONDU	ICTOR SIDE						12	HFW12R-	-2ST_	H1LF	14.6	11	13.1	4
		-					13	HFW13R-	-2ST_	H1LF	15.6	12	14.1	4
	0.4±0.08						14	HFW14R		H1LF	16.6	13	15.1	4
<u> </u>							15	HFW15R-		H1LF	17.6	14	16.1	
╼━┽(-╩╴	<u> </u>						16	HFW16R		H1LF	18.6	15	17.1	
	T						17	HFW17R		H1LF	19.6	16	18.1	
							18	HFW18R		H1LF	20.6	17	19.1	
							19	HFW19R-		H1LF	21.6	18	20.1	
							20	HFW20R		H1LF	22.6	19	21.1	
							21	HFW21R		H1LF	23.6	20	22.1	
							22	HFW22R		H1LF	24.6	21	23.1	
							23	HFW23R		H1LF	25.6	22	24.1	
)							 24	HFW24R		H1LF	26.6	23	25.1	
							<u>-</u> 25	HFW25R		H1LF	27.6	23	26.1	
E) min.							26	HFW26R		H1LF	27.0	24	27.1	
							<u>27</u>	HFW27R		H1LF	29.6	26	27.1	
CTS							28			<u> </u>	30.6	20	20.1	
							29	HFW28R			-	27	30.1	
MOUNTING ((SMT).						29 30	HFW29R		H1LF	31.6	20	31.1	
ORAWING.								HFW30R	-231_	H1LF	32.6	29		4
				PTION T							1			
				NUMBER	PL/	ATING OPT		CONTAC				MINAL P		
		HFW_		H1LF		BLANK		MATTE TIN	· · · · · · · ·					
											MATTE	. IIN:2		
		HFW_	<u>R-2ST</u>	ZH1L	-	Z		MATTE THIN			+	 TIN:1		n.
				⁻ ZH1LF ⁻ AH1LF	-	Z A			n tin f	PLATING	MATTE		um mii	
		HFW_	R–2ST		-			MATTE THIN GOLD : 0.3 GOLD : 0.3	N TIN F Sum m Sum m	PLATING in. in.	MATTE GOLD	TIN : 1	um miı m min.	
		HFW_ HFW_	R–2ST R–2ST	AH1LF	-	А		MATTE THIN GOLD : 0.3 GOLD : 0.3 GOLD : 0.0	N TIN F Sum m Sum m	PLATING in. in. min.	MATTE GOLD MATTE	TIN : 1 : 0.05u	um mii m min. um mii	n.
mat'l. c	ode	HFW_ HFW_ HFW_	R–2ST R–2ST	AH1LF BH1LI GH1LI	-	A B		MATTE THIN GOLD : 0.3 GOLD : 0.3 GOLD : 0.0	N TIN F Sum m Sum m Sum r TH Ni [PLATING in. in. min.	MATTE GOLD MATTE GOLD	TIN : 1 : 0.05u TIN : 1 : 0.05u	um min m min. um min m min.	n.
S	EE_TABL	HFW_ HFW_ HFW_	R-2ST R-2ST R-2ST surfa ISO 13	GH1LF GH1LF GH1LF GH1LF G_2 √	- - - 150 4	A B G erance .06 ISO 110	pro	MATTE THIN GOLD : 0.3 GOLD : 0.3 GOLD : 0.0 WIT	N TIN F Sum m Sum r D5um r FH Ni E prod	PLATING in. min. DAM luct fam	MATTE GOLD MATTE GOLD	TIN : 1 : 0.05u TIN : 1	um min m min. um min m min.	n.
S ltr ecn	EE_TABL	HFW_ HFW_ HFW_	R-2ST R-2ST R-2ST surfa ISO 13	GH1LF GH1LF GH1LF GH1LF G_2 √	tole	A B G erance .06 ISO 110 wise specifie	pro	MATTE THIN GOLD : 0.3 GOLD : 0.3 GOLD : 0.0 GOLD : 0.0 WIT	N TIN F Sum m Sum m Sum r TH Ni [PLATING in. min. DAM luct fam	MATTE GOLD MATTE GOLD	TIN : 1 : 0.05u TIN : 1 : 0.05u	um min m min. um min m min.	n.
S	EE_TABL	HFW_ HFW_ HFW_	R-2ST R-2ST R-2ST surfa ISO 13	AH1Lf BH1Ll GH1Ll CCE CCE CCE CCE CCE CCE CCE CCE CCE CC	tole ISO 4 otherv	A B G enance .06 ISO 110 wise specifie X/±0.2	pro	MATTE THIN GOLD : 0.3 GOLD : 0.3 GOLD : 0.0 WIT	N TIN F Sum m Sum r D5um r FH Ni E prod	PLATING in. min. DAM luct fam	MATTE GOLD MATTE GOLD	TIN : 1 : 0.05u TIN : 1 : 0.05u : 0.05u	um min. m min. um min. m min. F	n.
S ltr ecn	EE_TABL	HFW_ HFW_ HFW_	R-2ST R-2ST R-2ST surfa ISO 13 toleran angle	AH1Lf BH1Ll GH1Ll CGH1Ll CCE 202 Ces unless 2 Linear	tole 150 4 0therv 0.	A B G Prance 06 ISO 110 wise specifie X/±0.2 XX/±0.2		MATTE THIN GOLD : 0.3 GOLD : 0.3 GOLD : 0.7 WIT jection	N TIN F jum m jum m jum r GH Ni [prod	PLATING in. min. DAM luct fan	MATTE GOLD MATTE GOLD niLy PACING	TIN : 1 : 0.05u TIN : 1 : 0.05u 58NI	um min m min. um min. m min. F ONNEC	n.
S ltr ecn	EE_TABL	HFW_ HFW_ HFW_ E date	R-2ST R-2ST R-2ST surfa ISO 13 toleran	AH1Lf BH1Ll GH1Ll CGH1Ll CCE 202 Ces unless 2 Linear	tole 150 4 otherv 0.3 0.2	A B G enance .06 ISO 110 wise specifie X/±0.2	pro	MATTE THIN GOLD : 0.3 GOLD : 0.3 GOLD : 0.0 GOLD : 0.0 WIT	N TIN F jum m jum m jum r GH Ni [prod	PLATING in. min. DAM luct fam e 1mm S (Cat. No	MATTE GOLD MATTE GOLD niLy PACING	: TIN : 1 : 0.05u : TIN : 1 : 0.05u : 58NI : SMT C _R-2S	um min m min. um min. m min. F ONNEC	 n CTOF H1LI
S ltr ecn	EE_TABL	HFW_ HFW_ HFW_ E date	R-2ST R-2ST R-2ST surfa ISO 13 tolerani angle O°±2°	AH1LF BH1LI GH1LI ace aces unless ces unless	tole 150 4 0.2 0.2	A B G erance .06 ISO 110 wise specifie X/±0.2 xX/±0.2 xX/±0.2 2019-02-22	pro 1 d sca	MATTE THIN GOLD : 0.3 GOLD : 0.7 GOLD : 0.0 WIT jection MM Le 3:1	N TIN F Sum m Sum m D5um r FH Ni [prod title dwg	PLATING in. min. DAM luct fam t 1mm S (Cat. No no	MATTE GOLD MATTE GOLD niLy PACING . HFW_	: TIN : 1 : 0.05u : TIN : 1 : 0.05u : 58NI : SMT C _R-2S sheet	um min m min. m min. F ONNEC	n.
S ltr ecn	EE_TABL	HFW_ HFW_ HFW_ E date	R-2ST R-2ST surfa ISO 13 tolerani angle 0°±2° dr engr chr	AH1LF BH1LI GH1LI CCe 202 ces unless ces unless S.WATANA S.WATANA S-H.TH	- - - - - - - - - - - - - - - - - - -	A B G Prance 06 ISO 110 wise specifie X/±0.2 XX/±0.2 (XX/±0.2 (XX/±0.2 (2019-02-22) 2019-02-22 2019-02-22	pro 1 d sca 2 2 5	MATTE THIN GOLD : 0.3 GOLD : 0.7 GOLD : 0.0 WIT jection MM Le 3:1	N TIN F Sum m Sum m Doum r FH Ni [prod title dwg	PLATING in. min. DAM luct fan 1mm S (Cat. No no 1 (MATTE GOLD MATTE GOLD nily PACING . HFW D149	: TIN : 1 : 0.05u : TIN : 1 : 0.05u : 58NI : 58NI : 58NI : 6 : 58NI : 6 : 58NI : 7 : 7 : 7 : 7 : 7 : 7 : 7 : 7 : 7 : 7	um min m min. m min. F ONNEC	n.
S Ltr ecn B 	EE_TABL no dr	HFW_ HFW_ HFW_ E date	R-2ST R-2ST surfa ISO 13 tolerani angle o°±2° dr engr	AH1Lf BH1Ll GH1Ll CCe CCe CCe CCe CCe CCe CCe CCe CCe CC	- - - - - - - - - - - - - - - - - - -	A B G erance 06 ISO 110 wise specifie X/±0.2 XX/±0.2 XX/±0.2 2019-02-22 2019-02-22	pro 1 d sca 2 2 5	MATTE THIN GOLD : 0.3 GOLD : 0.7 GOLD : 0.0 WIT jection MM Le 3:1	N TIN F Sum m Sum m D5um r FH Ni [prod title dwg	PLATING in. min. DAM luct fan 1mm S (Cat. No no 1 (MATTE GOLD MATTE GOLD nily PACING . HFW D149	: TIN : 1 : 0.05u : TIN : 1 : 0.05u : 58NI : SMT C _R-2S sheet	um min m min. m min. F ONNEC	n.
S ltr ecn	EE_TABL	HFW_ HFW_ HFW_ E date	R-2ST R-2ST surfa ISO 13 tolerani angle 0°±2° dr engr chr	AH1LF BH1LI GH1LI CCe 202 ces unless ces unless S.WATANA S.WATANA S-H.TH	- - - - - - - - - - - - - - - - - - -	A B G Prance 06 ISO 110 wise specifie X/±0.2 XX/±0.2 (XX/±0.2 (XX/±0.2 (2019-02-22) 2019-02-22 2019-02-22	pro 1 d sca 2 2 5	MATTE THIN GOLD : 0.3 GOLD : 0.7 GOLD : 0.0 WIT jection MM Le 3:1	N TIN F Sum m Sum m Doum r FH Ni [prod title dwg	PLATING in. min. DAM luct fan 1mm S (Cat. No no 1 (MATTE GOLD MATTE GOLD nily PACING . HFW D149	: TIN : 1 : 0.05u : TIN : 1 : 0.05u : 58NI : 58NI : 58NI : 6 : 58NI : 6 : 58NI : 7 : 7 : 7 : 7 : 7 : 7 : 7 : 7 : 7 : 7	um min m min. m min. F ONNEC	n.

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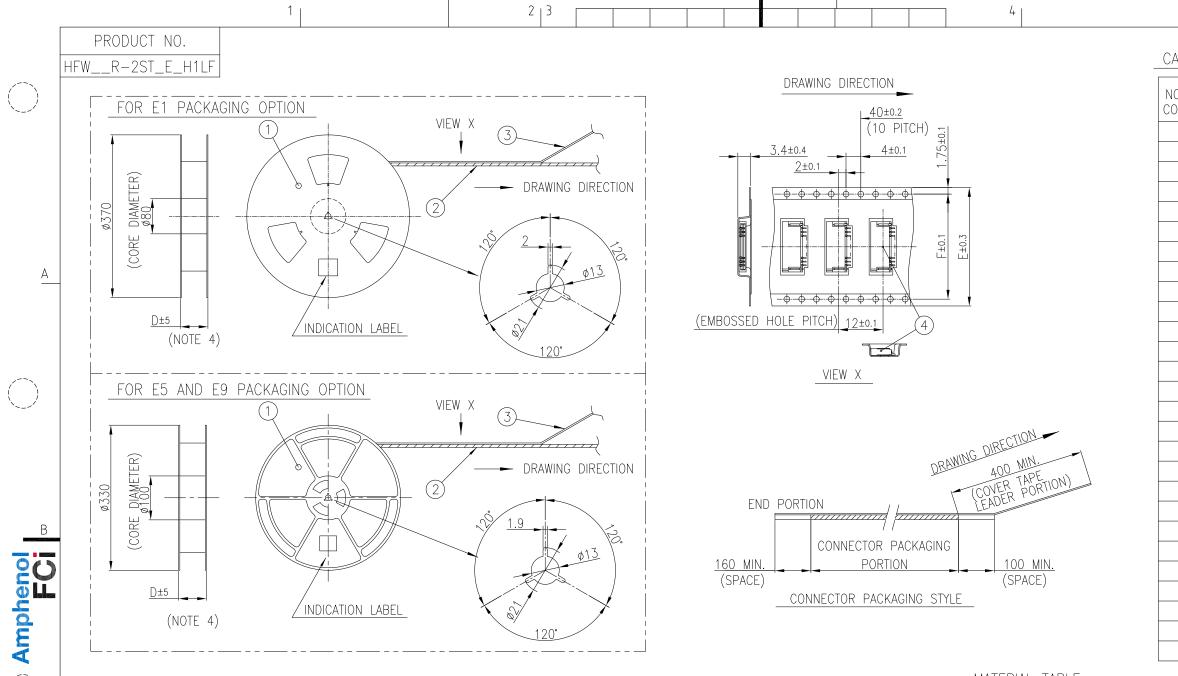
CAT. NO. & DIMENSIONS

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PACKAGING OPTION TABLE

PRODUCT NUMBER	PACKAGING OPTION	REEL MATERIAL REEL DIAMETER		CONNECTOR QUANTITY		
HFW_R-2ST_E1H1LF E1		CARDBOARD	ø370	2000 / REEL		
HFW_R-2ST_E5H1LF	IFW_R-2ST_E5H1LF E5		ø330	1500 / REEL		
HFW_R-2ST_E9H1LF E9		PLASTIC	ø330	500 / REEL		

MATERIAL TABLE

PT. NO.	PARTS NAME	CAT. NO.		MATERIAL	COLOR
1	RFFI			CARDBOARD	WHITE
I	REEL			POLYSTYRENE	BLACK
2	EMBOSS TAPE	HFW_R-2STH1LF		A PS or A-PET	TRANSPARENT
3	COVER TAPE			POLYESTER, POLYETHYLENE	TRANSPARENT
4	CONNECTOR			SEE SHEET 3	

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- 1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPES WITH AUTOMATIC MOUNTING (SMT).
- SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSSED) TAPE AND REEL.
 D DIMENSION IS PORTION OF THE CORE.
- mat'l. code surface / tolerance SEE_TABLE ISO 1302 🗸 ISO 406 ISO 1101 ltr ecn no dr date tolerances unless otherwise specified $0.X/\pm 0.5$ В angles linear 0.XX/±0.5 0.XXX/±0.5 0°±5° S.WATANABE 2019-02-22 dr S.WATANABE 2019-02-22 engr chr S-H.THIO 2019-02-25 appd Y.KAMEDA 2019-02-25 sheet revision index sheet 4

form: A3-2016-02-24

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PDS: Rev :B

STATUS:Released

Printed: Feb 28, 2019

CAT. NO. & DIMENSIONS

IO. OF	CAT. NO.	DIMENSIONS				
ONT (n)	CAT. NU.	D	E	F		
4	HFW4R-2ST_E_H1LF	28.4	24			
5	HFW5R-2ST_E_H1LF	28.4	24			
6	HFW6R-2ST_E_H1LF	28.4	24			
7	HFW7R-2ST_E_H1LF	28.4	24			
8	HFW8R-2ST_E_H1LF	28.4	24			
9	HFW9R-2ST_E_H1LF	28.4	24			
10	HFW10R-2ST_E_H1LF	28.4	24			
11	HFW11R-2ST_E_H1LF	28.4	24			
12	HFW12R-2ST_E_H1LF	28.4	24			
13	HFW13R-2ST_E_H1LF	28.4	24			
14	HFW14R-2ST_E_H1LF	28.4	24			
15	HFW15R-2ST_E_H1LF	36.4	32	28.4		
16	HFW16R-2ST_E_H1LF	36.4	32	28.4		
17	HFW17R-2ST_E_H1LF	36.4	32	28.4		
18	HFW18R-2ST_E_H1LF	36.4	32	28.4		
19	HFW19R-2ST_E_H1LF	48.4	44	40.4		
20	HFW20R-2ST_E_H1LF	48.4	44	40.4		
21	HFW21R-2ST_E_H1LF	48.4	44	40.4		
22	HFW22R-2ST_E_H1LF	48.4	44	40.4		
23	HFW23R-2ST_E_H1LF	48.4	44	40.4		
24	HFW24R-2ST_E_H1LF	48.4	44	40.4		
25	HFW25R-2ST_E_H1LF	48.4	44	40.4		
26	HFW26R-2ST_E_H1LF	48.4	44	40.4		
27	HFW27R-2ST_E_H1LF	48.4	44	40.4		
28	HFW28R-2ST_E_H1LF	48.4	44	40.4		
29	HFW29R-2ST_E_H1LF	48.4	44	40.4		
30	HFW30R-2ST_E_H1LF	60.4	56	52.4		

projection	product family								
$\triangle \square$									
	title								
MM	1mm SPACING SMT CONNECTOR								
scale N/A	(Cat.No. HFWR-2ST_E_H1LF)								
	dwg no sheet 4 of 5 size								
Amphenol FCi	10149903 A3								
	type CUSTOMER DRAWING								
	5 6								

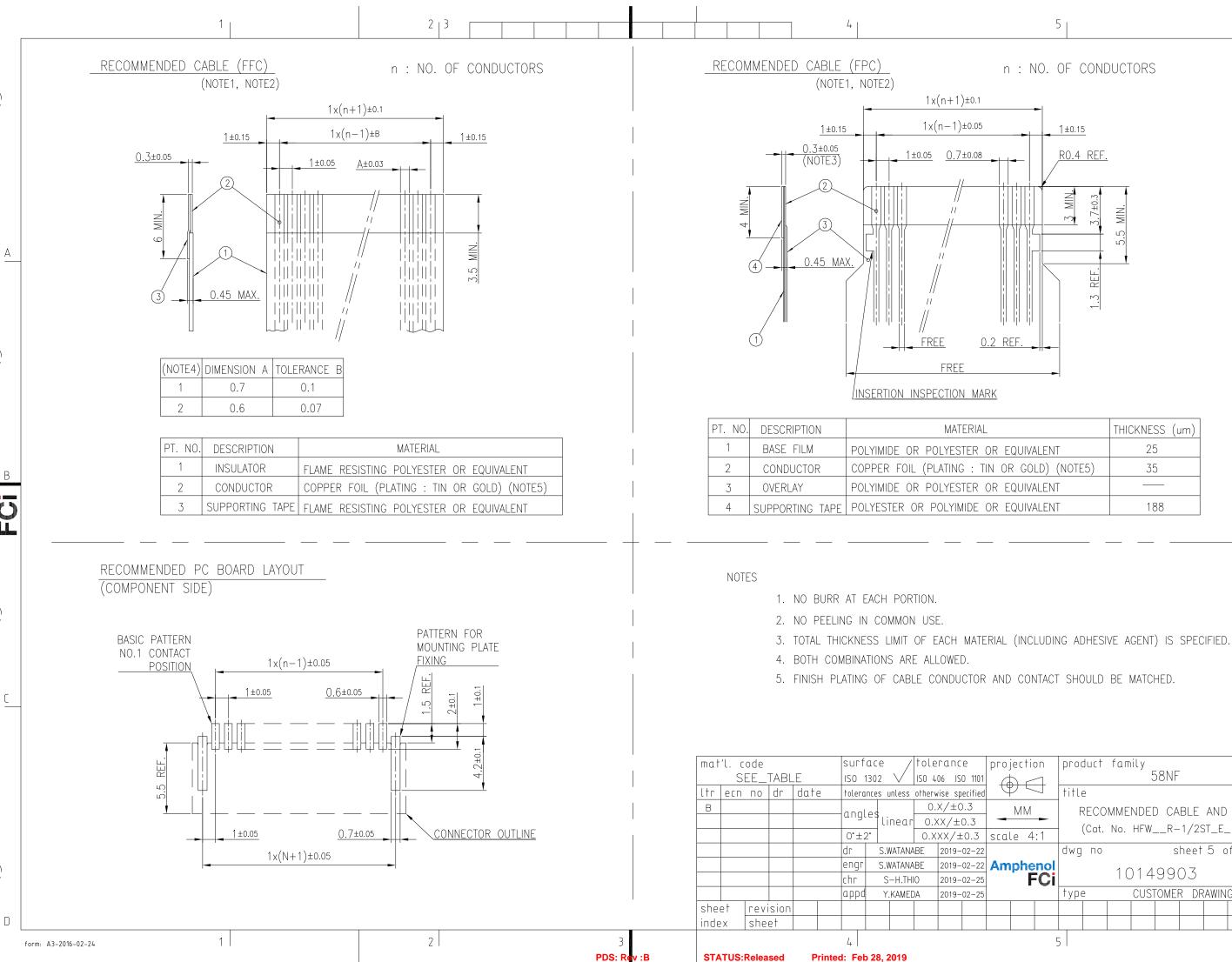
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Amphenol FCi

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n : NO. OF CONDUCTORS

	THICKNESS (um)
)r equivalent	25
N OR GOLD) (NOTE5)	35
)r equivalent	
DR EQUIVALENT	188

	proj	jectio	οn	product family									
			1	58NF									
	P 4		\neg	title	2								
		ΜМ	M RECOMMENDED CABLE AND PCB										
					$(\cap a^{+})$	NIa			-1/25		1111	-\	
	scal	.e 4	:1		(Cat.	INO.		R=	-1/23)	
Amphenol FCi			dwg	ΠO			S	heet	5 о	of 5	size		
			10149903 A3										
FCI													
				type	2		CUST	OME	r dr	awin	G		
			C	-								6	
			-									Ŭ	

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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

FCI / Amphenol:

<u>HFW6R-2STAE1H1LF</u> <u>HFW6R-2STZE1H1LF</u> <u>HFW14R-1STGE1H1LF</u> <u>HFW6R-2STBE1H1LF</u> <u>HFW6R-</u> 1STBE1H1LF HFW18R-1STE5H1LF