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### Configuration of Documents

P/N	Documents	No.	Title	CAT.No.
HFW_S-2STE1LF	Specification Connector dwg.	SC-HFWS03	CONNECTOR USED FOR FPC/FFC WITH 1mm CONTACT SPACING COPING WITH AUTOMATIC MOUNTING &SMT	HFW_S-2ST1LF
		JSA96464	CAT.NO.TABLE FOR 1mm SPACING SMT CONNECTOR	HFW_S-2ST_LF
		JSA96465	1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR	HFW_S-2ST_LF
		JSA96466	CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN.	HFW_S-2ST1LF
	Cable dwg.	JSA96467 JSA93588 JSA93587	PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR RECOMMENDED CABLE	HFW_S-2ST1LF HFW_S-2ST_ HFW_S-2ST_
HFW_S-2STAE1LF	Specification Connector dwg.	SC-HFWS06	CONNECTOR USED FOR C/C WITH 1mm CONTACT SPACING COPING WITH AUTOMATIC MOUNTING &SMT	HFW_S-2STAE1LF
		JSA97359	CAT.NO.TABLE FOR 1mm SPACING SMT CONNECTOR	HFW_S-2STA_LF
		JSA97370	1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR	HFW_S-2STA_LF
		JSA97371	CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN.	HFW_S-2STAE1LF
	Cable dwg.	JSA97372 JSA97373	PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR RECOMMENDED CABLE	HFW_S-2STAE1LF HFW_S-2STA_
HFW_S-2STBE1LF	Specification Connector dwg.	SC-HFWS06	CONNECTOR USED FOR C/C WITH 1mm CONTACT SPACING COPING WITH AUTOMATIC MOUNTING &SMT	HFW_S-2STBE1LF
		JSA97359	CAT.NO.TABLE FOR 1mm SPACING SMT CONNECTOR	HFW_S-2STB_LF
		JSA97360	1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR	HFW_S-2STB_LF
		JSA97361	CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN.	HFW_S-2STBE1LF
	Cable dwg.	JSA97362 JSA97363	PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR RECOMMENDED CABLE	HFW_S-2STBE1LF HFW_S-2STB_
HFW_S-6STE1LF	Specification Connector dwg.	SC-HFWS04	CONNECTOR USED FOR C/C WITH 1mm CONTACT SPACING COPING WITH AUTOMATIC MOUNTING &SMT	HFW_S-6STE1LF
		JSA96468	CAT.NO.TABLE FOR 1mm SPACING SMT CONNECTOR	HFW_S-6ST_LF
		JSA96469	1mm SPACING SURFACE MOUNT C/C CONNECTOR	HFW_S-6ST_LF
		JSA96470	CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN.	HFW_S-6STE1LF
	Cable dwg.	JSA96471 JSA93944	PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR RECOMMENDED CABLE	HFW_S-6STE1LF HFW_S-6ST_

mat'l. code				surface 58 / tolerance ISO 1302 / ISO 406 / ISO 1101		projection		product family 580F		CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title		
A	J05-0334	H.T	6/3/05	angles	linear	scale $\propto$		HFW_S Documents Configuration (1mm Contact Spacing connector)		
B	J06-0435	H.T	10/26/06					dwg no		sheet 1 of 1
C	J07-0481	H.T	2007-9-26					JSA96472		A4
D	J07-0502	H.T	2007-10-10	dr	engr	chr	appd	type Product Customer Drawing		size
sheet index	revision sheet	D	1							Rev D

form: A4

CAT. NO. & DIMENSIONS

(NOTE 3)	NO. OF CONTACTS (n)	CAT. NO.	DIMENSIONS (NOTE2)				
			A ± 0.2	B ± 0.2	C ± 0.2	D ± 0.2	E ± 0.2
	4	HFW4S-2STA__LF	7	5.14	3	—	—
	5	HFW5S-2STA__LF	8	6.14	4	—	—
	6	HFW6S-2STA__LF	9	7.14	5	—	—
	7	HFW7S-2STA__LF	10	8.14	6	—	—
	8	HFW8S-2STA__LF	11	9.14	7	—	—
	9	HFW9S-2STA__LF	12	10.14	8	0.35	7.3
	10	HFW10S-2STA__LF	13	11.14	9	0.35	8.3
	11	HFW11S-2STA__LF	14	12.14	10	1.35	7.3
	12	HFW12S-2STA__LF	15	13.14	11	1.35	8.3
	13	HFW13S-2STA__LF	16	14.14	12	2.35	7.3
	14	HFW14S-2STA__LF	17	15.14	13	2.35	8.3
	15	HFW15S-2STA__LF	18	16.14	14	3.35	7.3
	16	HFW16S-2STA__LF	19	17.14	15	3.35	8.3
	17	HFW17S-2STA__LF	20	18.14	16	4.35	7.3
	18	HFW18S-2STA__LF	21	19.14	17	4.35	8.3
	19	HFW19S-2STA__LF	22	20.14	18	5.35	7.3
	20	HFW20S-2STA__LF	23	21.14	19	5.35	8.3
	21	HFW21S-2STA__LF	24	22.14	20	6.35	7.3
	22	HFW22S-2STA__LF	25	23.14	21	6.35	8.3
	23	HFW23S-2STA__LF	26	24.14	22	7.35	7.3
	24	HFW24S-2STA__LF	27	25.14	23	7.35	8.3
	25	HFW25S-2STA__LF	28	26.14	24	8.35	7.3
	26	HFW26S-2STA__LF	29	27.14	25	8.35	8.3
	27	HFW27S-2STA__LF	30	28.14	26	9.35	7.3
	28	HFW28S-2STA__LF	31	29.14	27	9.35	8.3
	29	HFW29S-2STA__LF	32	30.14	28	10.35	7.3
	30	HFW30S-2STA__LF	33	31.14	29	10.35	8.3
*	31	HFW31S-2STA__LF	34	32.14	30	11.35	7.3
	32	HFW32S-2STA__LF	35	33.14	31	11.35	8.3
*	33	HFW33S-2STA__LF	36	34.14	32	12.35	7.3

CAT. NO.

HFW (n) S-2 ST A \_\_ LF

SERIES

NO. OF CONTACTS

STRAIGHT TYPE

FOR FPC / FFC

FOR AUTOMATIC MOUNTING (SMT)

VARIATION GOLD PLATING

PACKAGE STYLE

LEAD FREE

NOTES

1. THIS PRODUCT IS THE CONNECTOR DSIGNED TO TERMINATE FPC/FFC AND COPEs WITH AUTOMATIC MOUNTING (SMT).
2. SEE PART DRAWINGS FOR DIMENSIONS A~E.
3. PLEASE CONSULT US IN CASE OF USING PARTS WITH \* MARK.



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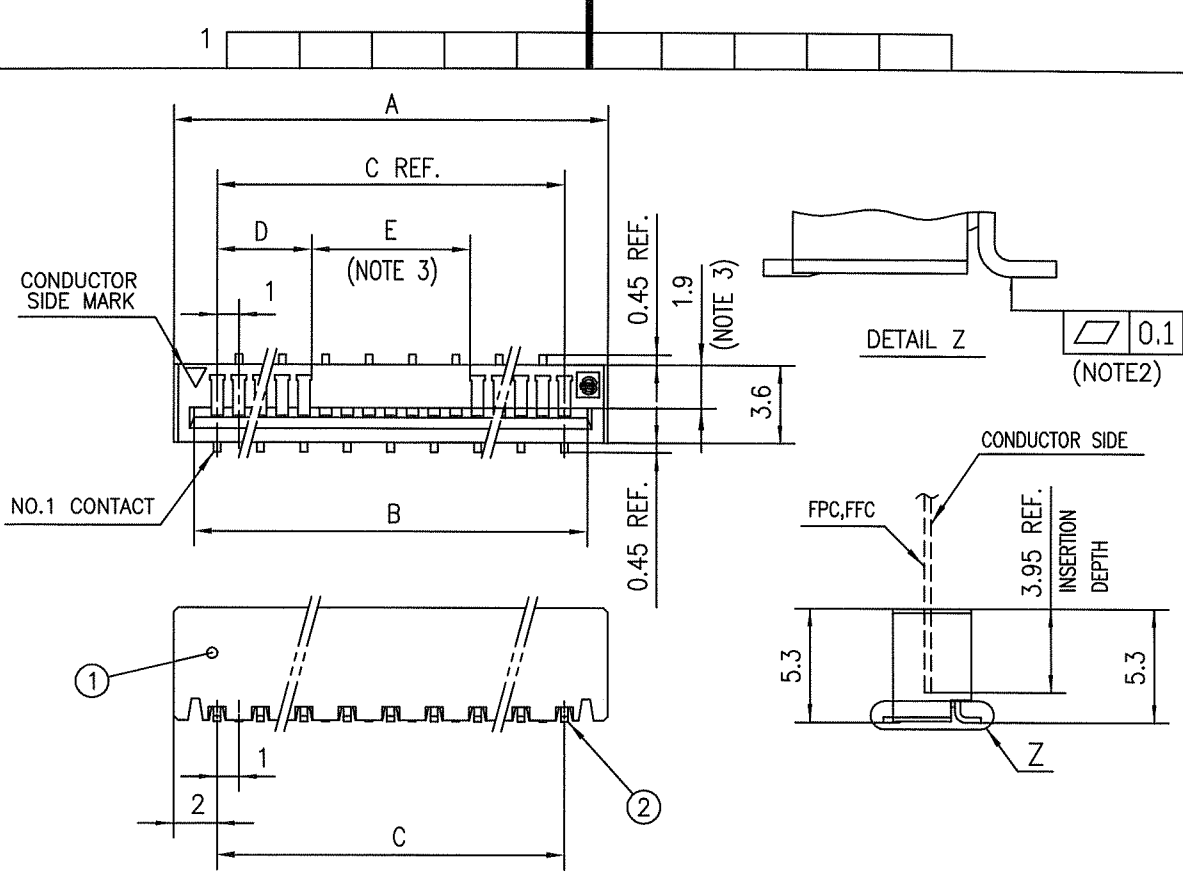
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mat'l. code				surface <sup>58</sup> / tolerance		projection		product family		CODE	
				ISO 1302 ✓ / ISO 406 / ISO 1101				580F		JP	
ltr				tolerances unless otherwise specified		mm		title			
A J07-0502 dr H.T. 2007-10-10				angles linear		← →		CAT NO. TABLE FOR 1mm SPACING SMT CONNECTOR (CAT.No.HFW__S-2STA__LF)			
				dr		scale X		dwg no		sheet 1 of 1 size	
				enr				JSA 97369		A4	
				chr				type Product Customer Drawing			
				appd							
sheet index		revision A								Rev A	
		sheet 1									



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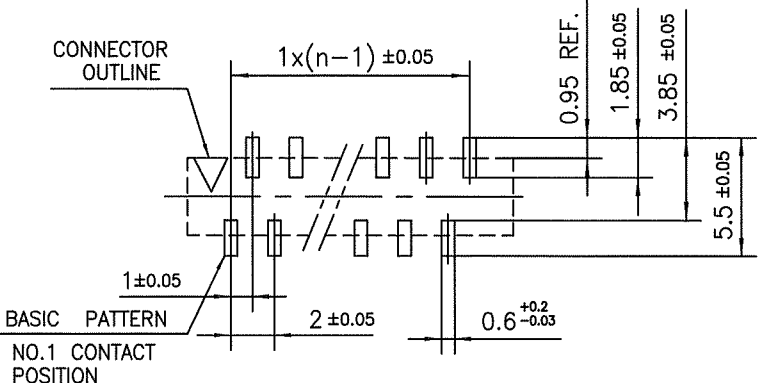
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PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	PA6T RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK
2	CONTACT	PHOSPHOR BRONZE	n	PLATING : GOLD

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT  
(COMPONENT SIDE)



NOTES

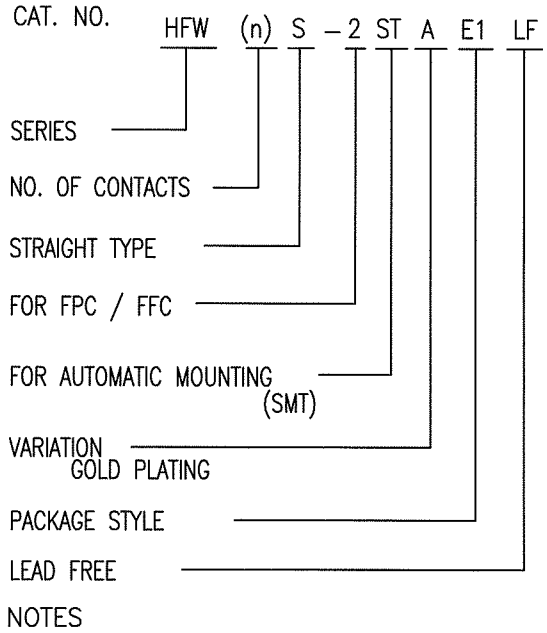
1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPE WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS OF CONTACT TERMINAL MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS DIMENSION IS SPACE FOR THE NOZZLE OF MOUNTER.
4. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008
5. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.

mat'l. code		surface 58 / tolerance ISO 1302 / ISO 406 / ISO 1101		projection		product family 580F		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		title		1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR (CAT.No.HFW__S-2STA__LF)	
A	J07-0502	H.T	2007-10-10	angles	linear ±0.2	mm		dwg no JSA 97370	
sheet index		revision sheet		dr		scale		sheet 1 of 1 size A4	
		1		engr		X		type Product Customer Drawing	
				chr		FCI			
				appd					

SC-HFWS06 JSA97369  
form: A4

CAT. NO. & DIMENSIONS

(NOTE.4)	NO. OF CONTACTS (n)	CAT. NO. (NOTE.2)	DIMENSIONS (NOTE.3)		
			F ± 0.5	G ± 0.3	H ± 0.1
	4	HF4S-2STAE1LF	28.4	24	—
	5	HF5S-2STAE1LF	28.4	24	—
	6	HF6S-2STAE1LF	28.4	24	—
	7	HF7S-2STAE1LF	28.4	24	—
	8	HF8S-2STAE1LF	28.4	24	—
	9	HF9S-2STAE1LF	28.4	24	—
	10	HF10S-2STAE1LF	28.4	24	—
	11	HF11S-2STAE1LF	28.4	24	—
	12	HF12S-2STAE1LF	28.4	24	—
	13	HF13S-2STAE1LF	28.4	24	—
	14	HF14S-2STAE1LF	36.4	32	28.4
	15	HF15S-2STAE1LF	36.4	32	28.4
	16	HF16S-2STAE1LF	36.4	32	28.4
	17	HF17S-2STAE1LF	36.4	32	28.4
	18	HF18S-2STAE1LF	48.4	44	40.4
	19	HF19S-2STAE1LF	48.4	44	40.4
	20	HF20S-2STAE1LF	48.4	44	40.4
	21	HF21S-2STAE1LF	48.4	44	40.4
	22	HF22S-2STAE1LF	48.4	44	40.4
	23	HF23S-2STAE1LF	48.4	44	40.4
	24	HF24S-2STAE1LF	48.4	44	40.4
	25	HF25S-2STAE1LF	48.4	44	40.4
	26	HF26S-2STAE1LF	48.4	44	40.4
	27	HF27S-2STAE1LF	48.4	44	40.4
	28	HF28S-2STAE1LF	48.4	44	40.4
	29	HF29S-2STAE1LF	60.4	56	52.4
	30	HF30S-2STAE1LF	60.4	56	52.4
*	31	HF31S-2STAE1LF	60.4	56	52.4
	32	HF32S-2STAE1LF	60.4	56	52.4
*	33	HF33S-2STAE1LF	60.4	56	52.4



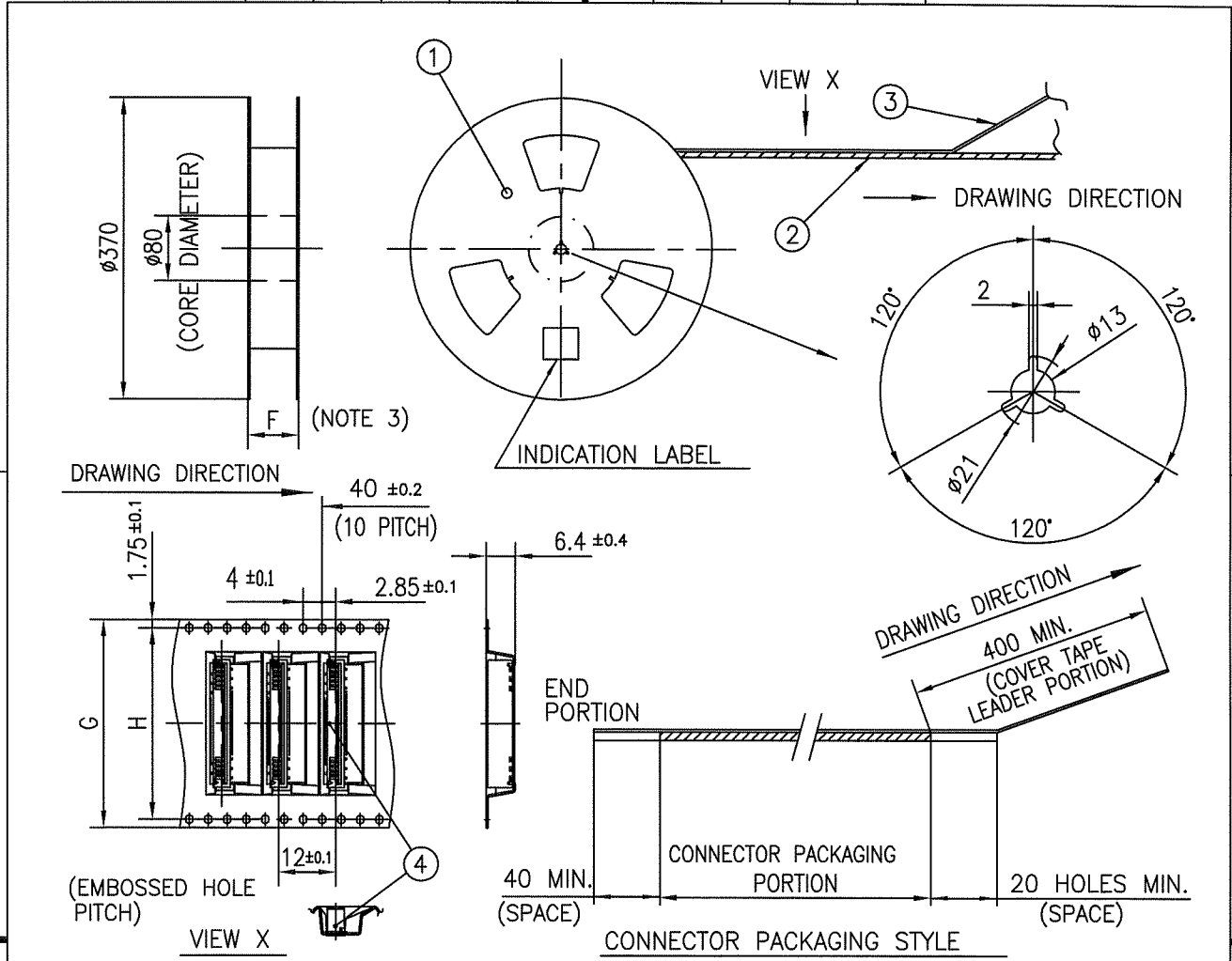
1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPEs WITH AUTOMATIC MOUNTING (SMT).
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
3. SEE PART DRAWINGS FOR DIMENSIONS F~H.
4. PLEASE CONSULT US IN CASE OF USING PARTS WITH \* MARK.



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mat'l. code				surface 58 / tolerance ISO 1302 ✓ / ISO 406 / ISO 1101		projection		product family 580F		CODE JP		
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN. (CAT.No.HFW__S-2STAE1LF)				
A	J07-0502	H.T	2007-10-10	angles	linear							
				dr	2007-10-10			dwg no		sheet 1 of 1	size	
				enr	2007-10-10			JSA 97371		A4		
				chr	2007-10-10			type		Product Customer Drawing		
				app	2007-10-10							
sheet index	revision	A	1									Rev. A



PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	CARDBOARD	1	COLOR:GRAY
2	PLASTIC (EMBOSS) TAPE	_____	PET	_____	COLOR:TRANSPARENCY
3	COVER	_____	POLYESTER	_____	COLOR:TRANSPARENCY
4	CONNECTOR	HFWS-2STA-LF	SEE ATTACHED DWG.	1000	_____

- NOTES
- THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR 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 (EMBOSS) TAPE AND REEL.
  - F DIMENSION IS PORTION OF THE CORE.

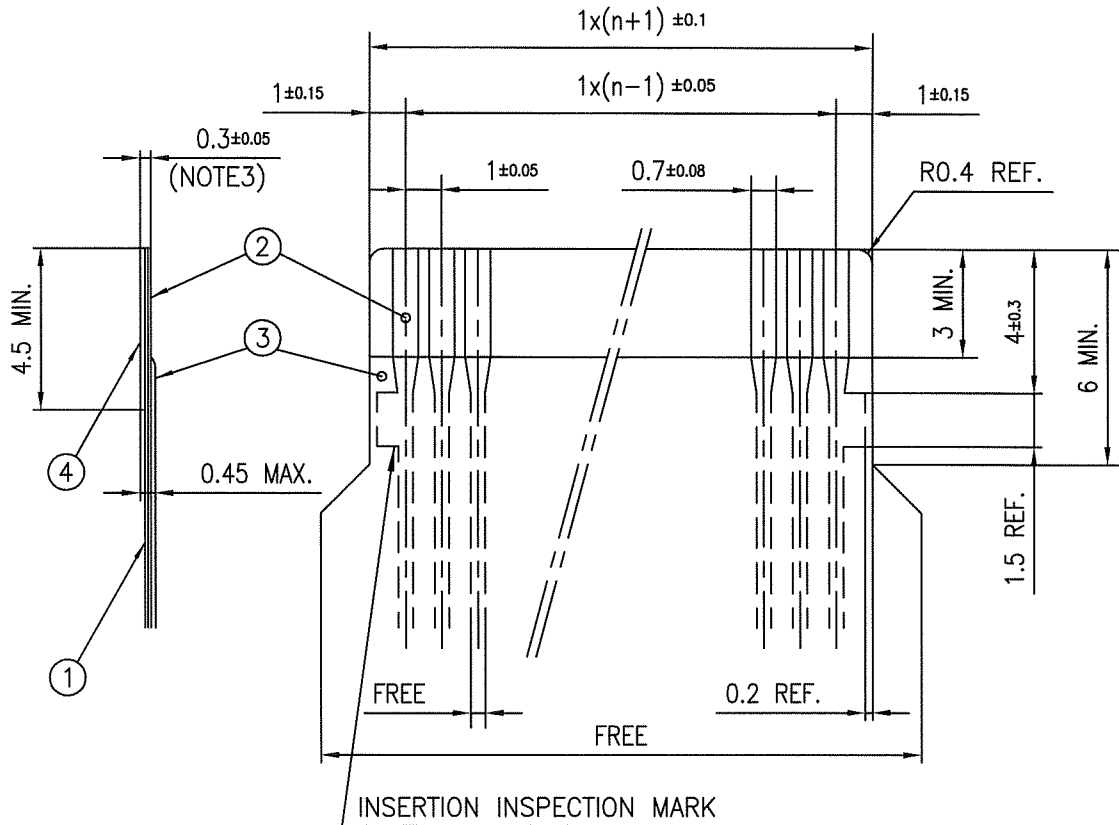
mat'l. code		surface 58 ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection mm		product family 580F		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (CAT.No.HFWS-2STAE1LF)			
A	J07-0502	H.T.	2007-10-10	angles	linear	mm		dwg no			
				±5°		scale X		sheet 1 of 1 size			
				dr	engr	FCI		JSA 97372			
				chr	appd			type Product Customer Drawing			
sheet index	revision	A									Rev A
	sheet	1									

SC-HFWS06 JSA97371  
form: A4



RECOMMENDED CABLE (FPC)

n : NO. OF CONDUCTORS



PT. NO.	DISCRIPTION	MATERIAL	THICKNESS (μm)
1	BASE FILM	POLYIMIDE OR POLYESTER OR EQUIVALENT	25
2	CONDUCTOR	COPPER FOIL (PLATING : GOLD.)	35
3	OVERLAY	POLYIMIDE OR POLYESTER OR EQUIVALENT	—
4	SUPPORTING TAPE	POLYESTER OR POLYIMIDE OR EQUIVALENT	188

NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. TOTAL THICKNESS LIMIT OF EACH MATERIAL (INCLUDING ADHESIVE AGENT) IS SPECIFIED.

mat'l. code		surface $\sqrt{58}$ / tolerance ISO 406 / ISO 1101		projection		product family 580F		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		title		RECOMMENDED CABLE (CAT.No.HFW__S-2STA__)	
A	J07-0502	H.T	2007-10-10	angles	linear	mm		dwg no sheet 1 of 1 size	
						scale $\times$		JSA 97373 A4	
				dr	2007-10-10			type Product Customer Drawing	
				enr	2007-10-10				
				chr	2007-10-10				
				appd	2007-10-10				
sheet index	revision sheet	A	1						Rev A