



Configuration of Documents

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

form: A4

1

2

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-2ST__LF	7	5.14	3	—	—
	5	HFW5S-2ST__LF	8	6.14	4	—	—
	6	HFW6S-2ST__LF	9	7.14	5	—	—
	7	HFW7S-2ST__LF	10	8.14	6	—	—
	8	HFW8S-2ST__LF	11	9.14	7	—	—
	9	HFW9S-2ST__LF	12	10.14	8	0.35	7.3
	10	HFW10S-2ST__LF	13	11.14	9	0.35	8.3
	11	HFW11S-2ST__LF	14	12.14	10	1.35	7.3
	12	HFW12S-2ST__LF	15	13.14	11	1.35	8.3
	13	HFW13S-2ST__LF	16	14.14	12	2.35	7.3
	14	HFW14S-2ST__LF	17	15.14	13	2.35	8.3
	15	HFW15S-2ST__LF	18	16.14	14	3.35	7.3
	16	HFW16S-2ST__LF	19	17.14	15	3.35	8.3
	17	HFW17S-2ST__LF	20	18.14	16	4.35	7.3
	18	HFW18S-2ST__LF	21	19.14	17	4.35	8.3
	19	HFW19S-2ST__LF	22	20.14	18	5.35	7.3
	20	HFW20S-2ST__LF	23	21.14	19	5.35	8.3
	21	HFW21S-2ST__LF	24	22.14	20	6.35	7.3
	22	HFW22S-2ST__LF	25	23.14	21	6.35	8.3
	23	HFW23S-2ST__LF	26	24.14	22	7.35	7.3
	24	HFW24S-2ST__LF	27	25.14	23	7.35	8.3
	25	HFW25S-2ST__LF	28	26.14	24	8.35	7.3
	26	HFW26S-2ST__LF	29	27.14	25	8.35	8.3
	27	HFW27S-2ST__LF	30	28.14	26	9.35	7.3
	28	HFW28S-2ST__LF	31	29.14	27	9.35	8.3
	29	HFW29S-2ST__LF	32	30.14	28	10.35	7.3
	30	HFW30S-2ST__LF	33	31.14	29	10.35	8.3
*	31	HFW31S-2ST__LF	34	32.14	30	11.35	7.3
	32	HFW32S-2ST__LF	35	33.14	31	11.35	8.3
*	33	HFW33S-2ST__LF	36	34.14	32	12.35	7.3

CAT. NO.

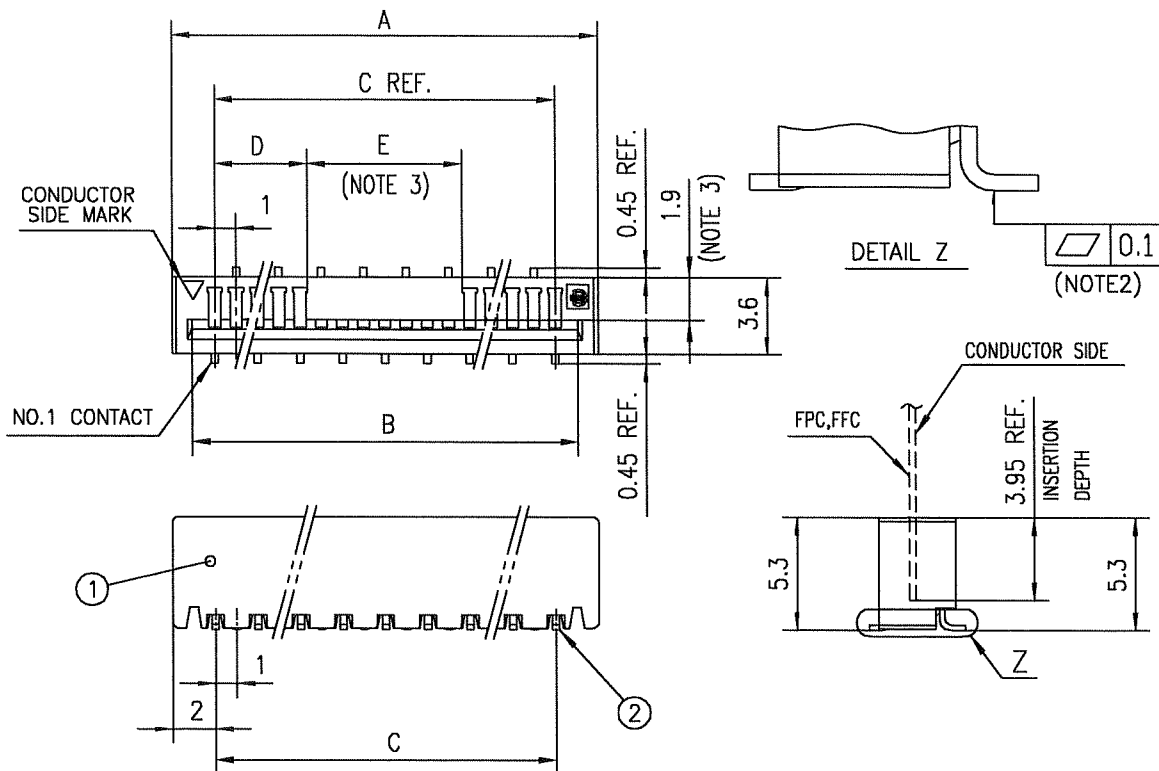
HFW (n) S-2 ST __ LF
 SERIES
 NO. OF CONTACTS
 STRAIGHT TYPE
 FOR FPC / FFC
 FOR AUTOMATIC MOUNTING (SMT)
 PACKAGE STYLE
 LEAD FREE

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.

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 1mm SPACING SMT CONNECTOR (CAT.No.HFW__S-2ST__LF)			
A	J05-0334	H.T	6/3/'05	angles	linear	scale X		dwg no sheet 1 of 1 size A4			
B	J06-0435	H.T	10/26/'06			FCI		JSA 96464			
				dr	10/26/'06			type Product Customer Drawing			
				engr	10/26/'06			Rev. B			
				chr	10/26/'06						
				appd	10/27/'06						
sheet index	revision B	sheet 1									

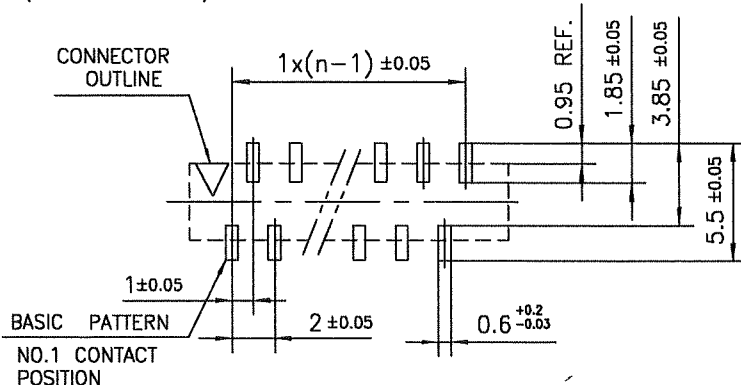
SC-HFWS03 JSA96465,96466,96467,93588,93587
form: A4



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

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)



NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COTES 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 ISO 1302	tolerance ISO 406 ISO 1101	projection 	product family 580F	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm	title 1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR (CAT.No.HFW__S-2ST__LF)	
A	J05-0334	H.T	6/3/'05	angles	linear			
B	J05-0731	H.T	10/28/'05				dwg no JSA 96465	
C	J06-0435	H.T	10/26/'06			scale $\times$		
				dr	10/26/'06		sheet 1 of 1 size A4	
				enr	10/26/'06			
				chr	10/26/'06			
				appd	10/26/'06			
sheet index	revision	C					type Product Customer Drawing	
	sheet	1					Rev. c	

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CAT. NO. & DIMENSIONS

(NOTE.4)	NO. OF CONTACTS (n)	CAT. NO. (NOTE2)	DIMENSIONS (NOTE3)		
			F ± 5	G ± 0.3	H ± 0.1
	4	HFW4S-2STE1LF	28.4	24	—
	5	HFW5S-2STE1LF	28.4	24	—
	6	HFW6S-2STE1LF	28.4	24	—
	7	HFW7S-2STE1LF	28.4	24	—
	8	HFW8S-2STE1LF	28.4	24	—
	9	HFW9S-2STE1LF	28.4	24	—
	10	HFW10S-2STE1LF	28.4	24	—
	11	HFW11S-2STE1LF	28.4	24	—
	12	HFW12S-2STE1LF	28.4	24	—
	13	HFW13S-2STE1LF	28.4	24	—
	14	HFW14S-2STE1LF	36.4	32	28.4
	15	HFW15S-2STE1LF	36.4	32	28.4
	16	HFW16S-2STE1LF	36.4	32	28.4
	17	HFW17S-2STE1LF	36.4	32	28.4
	18	HFW18S-2STE1LF	48.4	44	40.4
	19	HFW19S-2STE1LF	48.4	44	40.4
	20	HFW20S-2STE1LF	48.4	44	40.4
	21	HFW21S-2STE1LF	48.4	44	40.4
	22	HFW22S-2STE1LF	48.4	44	40.4
	23	HFW23S-2STE1LF	48.4	44	40.4
	24	HFW24S-2STE1LF	48.4	44	40.4
	25	HFW25S-2STE1LF	48.4	44	40.4
	26	HFW26S-2STE1LF	48.4	44	40.4
	27	HFW27S-2STE1LF	48.4	44	40.4
	28	HFW28S-2STE1LF	48.4	44	40.4
	29	HFW29S-2STE1LF	60.4	56	52.4
	30	HFW30S-2STE1LF	60.4	56	52.4
*	31	HFW31S-2STE1LF	60.4	56	52.4
	32	HFW32S-2STE1LF	60.4	56	52.4
*	33	HFW33S-2STE1LF	60.4	56	52.4

CAT. NO.

HFW (n) S - 2 ST E1 LF

SERIES

NO. OF CONTACTS

STRAIGHT TYPE

FOR FPC / FFC

FOR AUTOMATIC MOUNTING

(SMT)

PACKAGE STYLE

LEAD FREE

NOTES

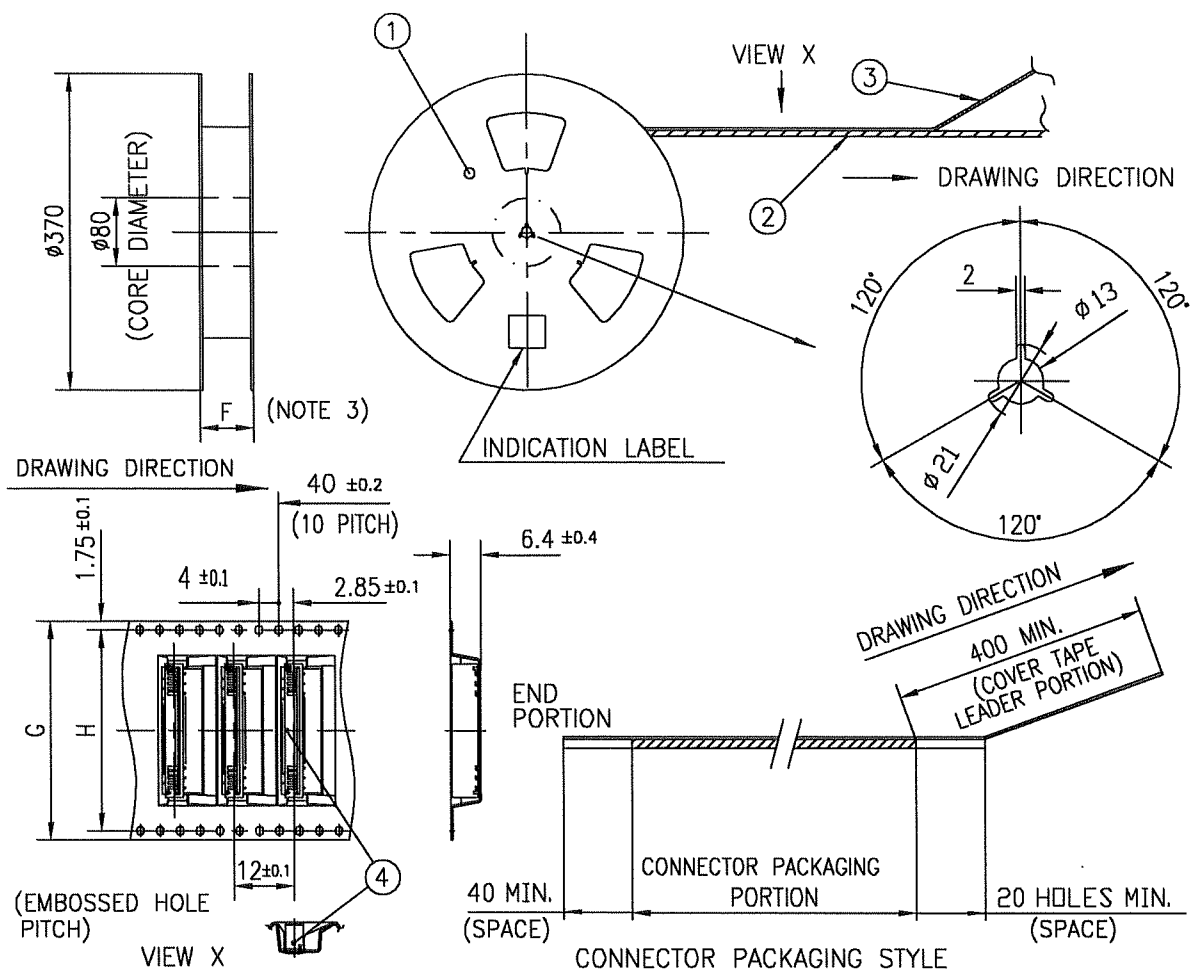
1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPE WITH AUTOMATIC MOUNTING (SMT).
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
3. SEE PART DRAWINGS FOR DIMENSIONS F~H.
4. PLEASE CONSULT US IN CASE OF USING PARTS WITH * MARK.

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	mm		CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN. (CAT.No.HFW__S-2STE1LF)			
B	J06-0435	H.T	10/26/06			scale X		dwg no sheet 1 of 1 size			
				dr	10/26/06	FCI		JSA 96466 A4			
				engr	10/26/06			type Product Customer Drawing			
				chr	10/26/06						
				appd	10/27/06						
sheet index	revision B	sheet 1									Rev. B

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form: A4

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2



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

NOTES

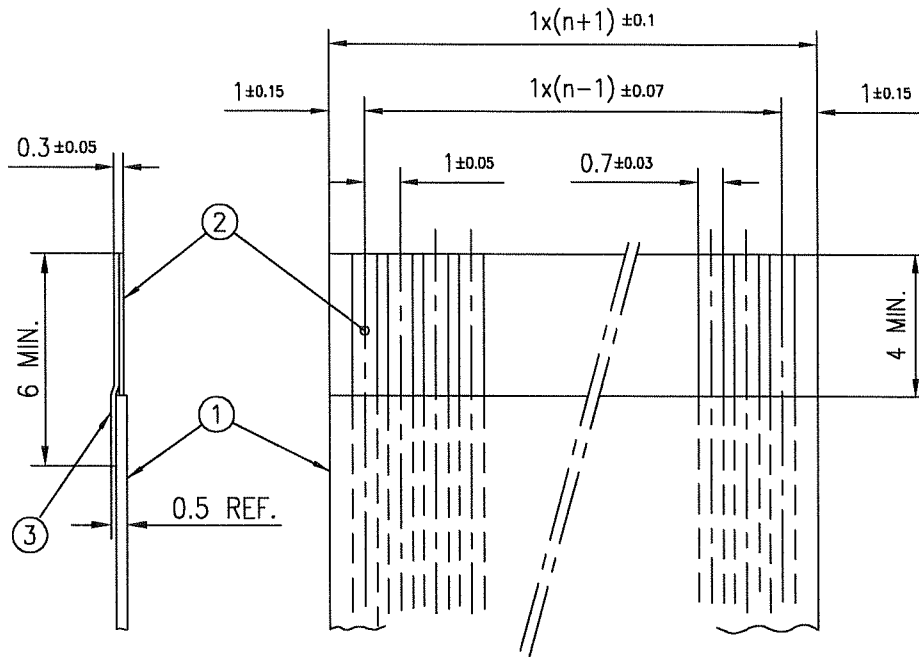
- THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC/FFC AND CYPES WITH AUTOMATIC MOUNTING (SMT).
- SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSSSED) TAPE AND REEL.
- F DIMENSION IS PORTION OF THE CORE.

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		mm		PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (CAT.No.HFW__S-2STE1LF)			
B	J06-0435	H.T	10/26/'06	±5'		scale X		dwg no sheet 1 of 1 size			
				dr		10/26/06		JSA 96467 A4			
				enr		10/26/06					
				chr		10/26/06					
				appd		10/27/06					
sheet index		revision B								Rev. B	
sheet 1											

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form: A4

RECOMMENDED CABLE (FFC)

n : NO. OF CONDUCTOR



PT. NO.	DESCRIPTION	MATERIAL	NOTE
1	INSULATOR	FLAME RESISTING POLYESTER OR EQUIVALENT	
2	CONDUCTOR	COPPER FOIL	PLATING: TIN OR SOLDER 1μm MIN.
3	SUPPORTING TAPE	FLAME RESISTING POLYESTER OR EQUIVALENT	

NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.

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			
AA	J04-0334	H.T	Oct.13,'04	angles	linear	mm		RECOMMENDED CABLE			
AB	J06-0435	H.T	10/26/'06			scale X		(CAT.No.HFW__S-2ST__)			
				dr	10/26/'06		dwg no		sheet 1 of 1		size
				enr	10/26/'06		JSA 93588				A4
				chr	10/24/'06		type		Product Customer Drawing		
				appd	10/27/'06						
sheet index	revision sheet	AB	1							Rev. AB	

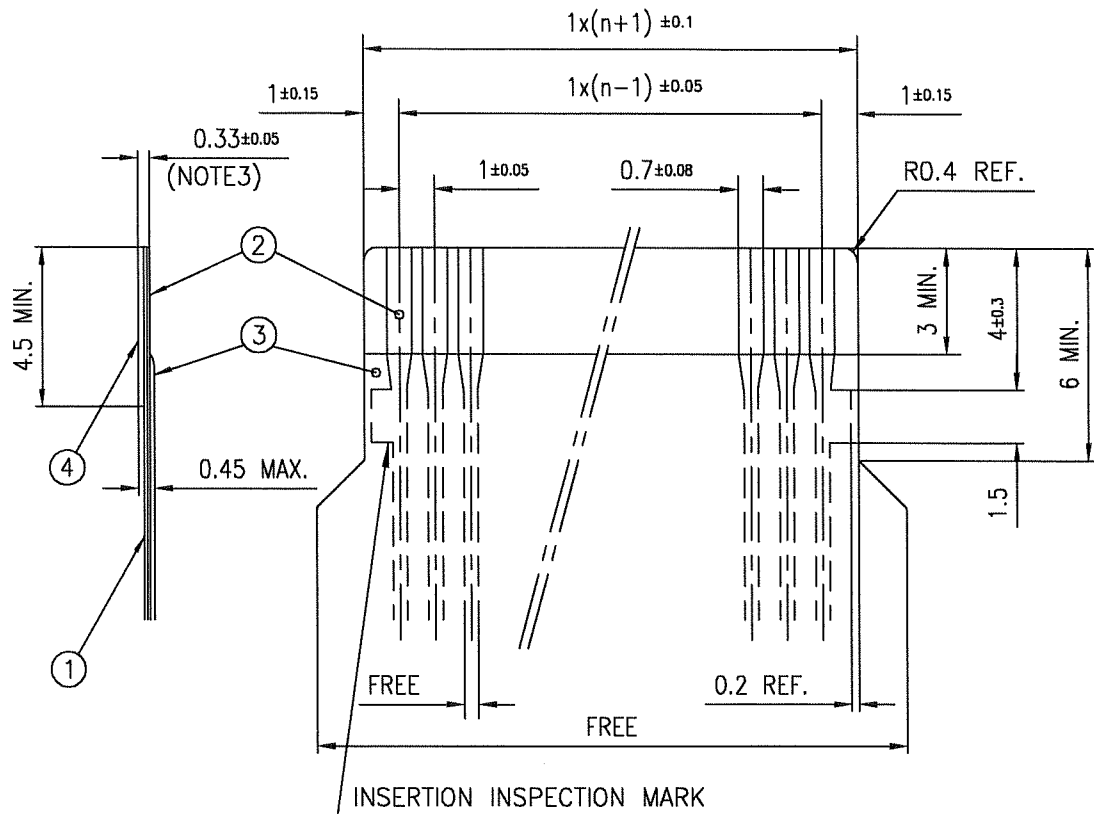
form: A4

1

2

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 : SOLDER 1μm MIN.)	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 58 / tolerance ISO 1302 ✓ / ISO 406 / ISO 1101		projection		product family 580F		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified				title			
AA	J04-0334	H.T	Oct.13,'04	angles	linear	mm		RECOMMENDED CABLE			
AB	J06-0435	H.T	10/26/'06			scale X		(CAT.No.HFW__S-2ST__)			
				dr	10/26/06			dwg no		sheet 1 of 1	size
			engr	10/26/06	JSA 93587			A4			
			chr	10/26/06							
			appd	10/27/06							
sheet index		revision AB								Rev. AB	