

Configuration of Documents

P/N	Documents No.	Title	CAT. No.
HFW_S-4STZE1F	Specification	SC-HFW505 CONNECTOR USED FOR FPC/FFC WITH 1mm CONTACT SPACING COPING WITH AUTOMATIC MOUNTING & SMT	HFW_S-4STZE1F
Connector dwg.	JSA97113	CAT NO. TABLE FOR 1mm SPACING SMT CONNECTOR	HFW_S-4STZ_LF
JSA97114	1mm SPACING SURFACE MOUNT CONNECTOR	HFW_S-4STZ_LF	HFW_S-4STZ_LF
JSA97115	CAT NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR	HFW_S-4STZE1F	HFW_S-4STZE1F
JSA97116	PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR	HFW_S-4STZE1F	HFW_S-4STZE1F
Cable dwg.	JSA97117 RECOMMENDED CABLE	HFW_S-4ST_--	HFW_S-4ST_--
JSA97118	RECOMMENDED CABLE	HFW_S-4ST_--	HFW_S-4ST_--

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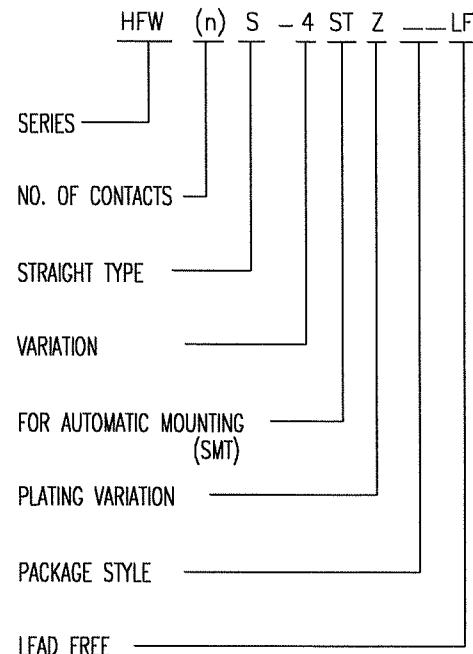
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mat'l. code				surface 58 ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection	product family	580F	CODE JP
ltr ecn no dr date				tolerances unless otherwise specified			title		
A J06-0107 H.T 3/20/'06						mm	HFW_S Documents Configuration (1mm Contact Spacing connector)		
B J06-0435 H.T 10/26/'06				angles	linear	scale X	dwg no		
							sheet 1 of 1		
				dr	10/26/06		size		
				engr	10/26/06		A4		
				chr	10/26/06				
				appd	10/26/06		type		
sheet		revision	B				Product Customer Drawing		
index		sheet	1						

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

CAT. NO.



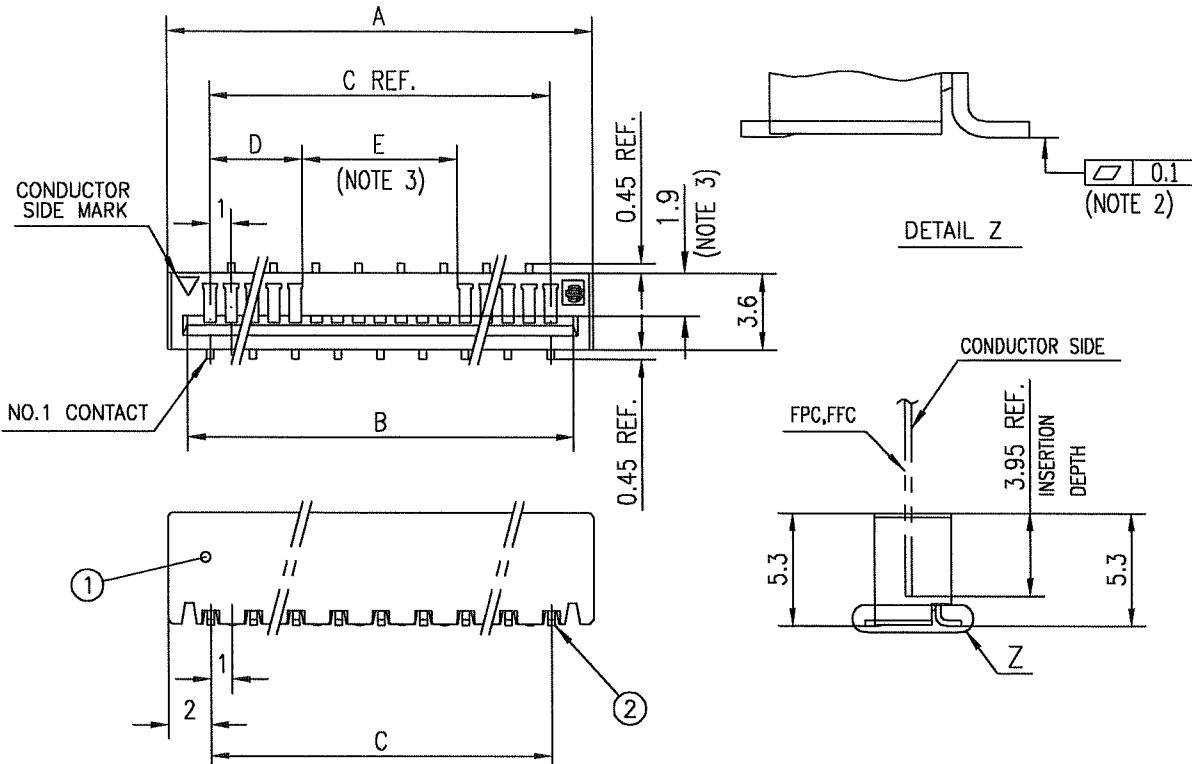
NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPIES 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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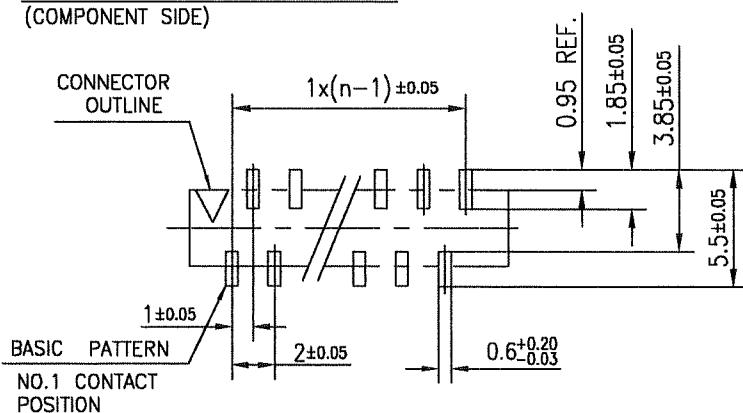
mat'l. code				surface 58 ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection	product family 580F	CODE JP			
Itr	ecn no	dr	date	tolerances unless otherwise specified			title CAT NO. TABLE FOR 1mm SPACING SMT CONNECTOR (CAT.No.HFW__S-4STZ__LF)				
A	J06-0107	H.T	3/20/06	angles	linear						
B	J06-0435	H.T	10/26/06				scale \propto				
				dr	<i>10/26/06</i>						
				engr	<i>10/26/06</i>						
				chr	<i>10/26/06</i>						
				appd	<i>10/26/06</i>						
sheet				revision B							
index				sheet 1							
SC-HFWS05 form: A4				SC-HFWS05	JSA97114	97115	97116	97117	97118	1	Rev B





n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE)



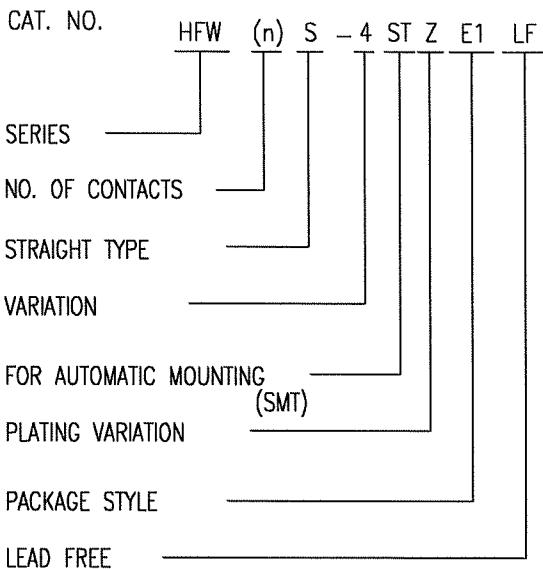
NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPIES 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 SOLDERIN 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				title	1mm SPACING SURFACE MOUNT CONNECTOR (CAT.No.HFW__S-4STZ__LF)	
A	J06-0107	H.T	3/20/06	angles	linear	±0.2	mm		dwg no	
B	J06-0435	H.T	10/26/06				scale			
				dr	<i>10/26/06</i>				JSA 97114	A4
				engr	<i>10/26/06</i>					
				chr	<i>10/26/06</i>					
				appd	<i>10/27/06</i>					
sheet	revision	B								
index	sheet	1								

CAT. NO. & DIMENSIONS

(NOTE4)	NO. OF CONTACTS (n)	CAT. NO. (NOTE2)	DIMENSIONS (NOTE3)		
			F ± 5	G ± 0.3	H ± 0.1
A	4	HFW4S-4STZE1LF	28.4	24	—
	5	HFW5S-4STZE1LF	28.4	24	—
	6	HFW6S-4STZE1LF	28.4	24	—
	7	HFW7S-4STZE1LF	28.4	24	—
	8	HFW8S-4STZE1LF	28.4	24	—
	9	HFW9S-4STZE1LF	28.4	24	—
	10	HFW10S-4STZE1LF	28.4	24	—
	11	HFW11S-4STZE1LF	28.4	24	—
	12	HFW12S-4STZE1LF	28.4	24	—
	13	HFW13S-4STZE1LF	28.4	24	—
	14	HFW14S-4STZE1LF	36.4	32	28.4
	15	HFW15S-4STZE1LF	36.4	32	28.4
	16	HFW16S-4STZE1LF	36.4	32	28.4
	17	HFW17S-4STZE1LF	36.4	32	28.4
	18	HFW18S-4STZE1LF	48.4	44	40.4
	19	HFW19S-4STZE1LF	48.4	44	40.4
	20	HFW20S-4STZE1LF	48.4	44	40.4
	21	HFW21S-4STZE1LF	48.4	44	40.4
	22	HFW22S-4STZE1LF	48.4	44	40.4
	23	HFW23S-4STZE1LF	48.4	44	40.4
	24	HFW24S-4STZE1LF	48.4	44	40.4
	25	HFW25S-4STZE1LF	48.4	44	40.4
	26	HFW26S-4STZE1LF	48.4	44	40.4
	27	HFW27S-4STZE1LF	48.4	44	40.4
	28	HFW28S-4STZE1LF	48.4	44	40.4
	29	HFW29S-4STZE1LF	60.4	56	52.4
	30	HFW30S-4STZE1LF	60.4	56	52.4
	*	31 HFW31S-4STZE1LF	60.4	56	52.4
	*	32 HFW32S-4STZE1LF	60.4	56	52.4
C	*	33 HFW33S-4STZE1LF	60.4	56	52.4

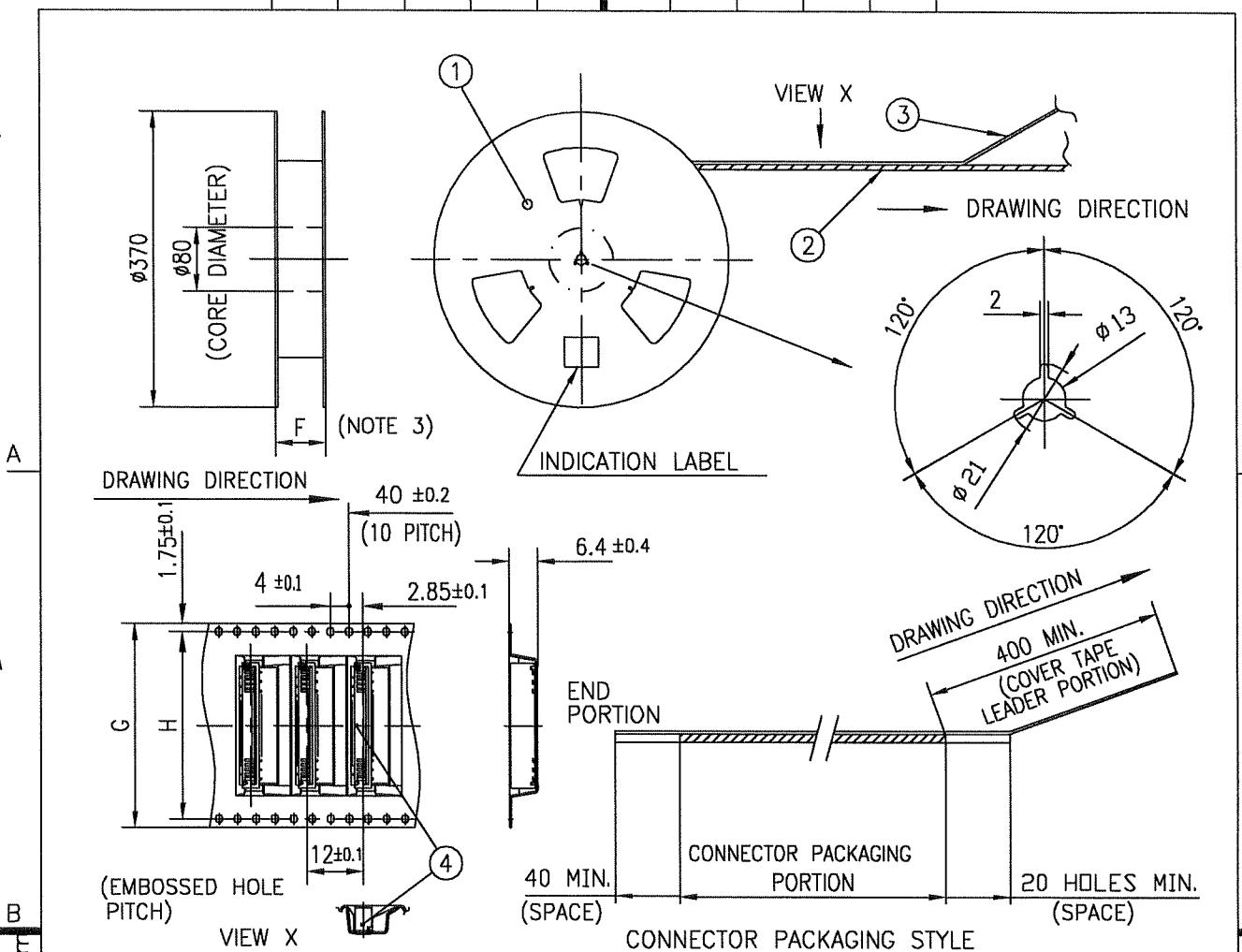


NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPIES 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 ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection	product family 580F	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified			title CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN. (CAT.No.HFW__S-4STZE1LF)	
A	J06-0107	H.T	3/20/06	angles	linear	mm		
B	J06-0435	H.T	10/26/06			scale X		
				dr	<i>H. Johnson</i>	10/21/06		
				engr	<i>H. Johnson</i>	10/26/06		
				chr	<i>R. Shoupe</i>	10/26/06		
				appd	<i>S. Anderson</i>	10/27/06		
sheet revision B				dwg no sheet 1 of 1			size	
index sheet 1				JSA 97115			A4	
type Product Customer Drawing								
sheet		revision		dwg no		size	Rev. B	
index		sheet		JSA 97115		A4		



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

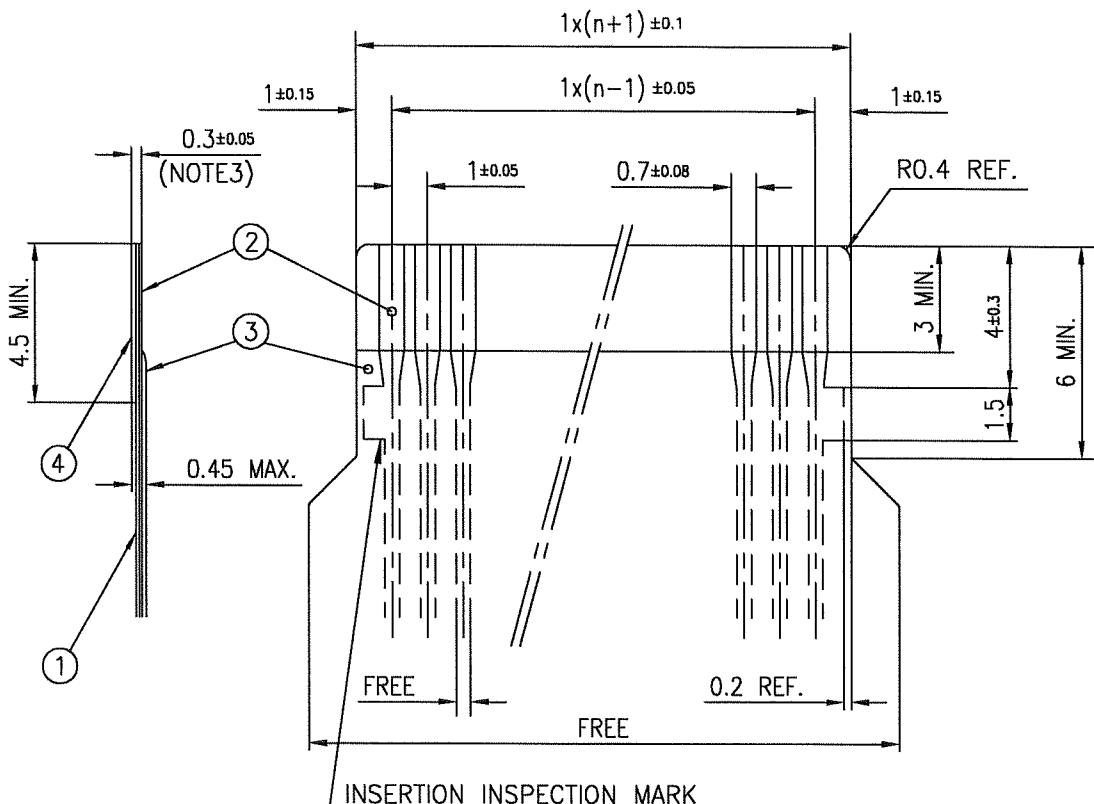
NOTES

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

mat'l. code				surface 58 ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection	product family	580F	CODE JP
ltr				tolerances unless otherwise specified			title		
A				angles		±5	PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (CAT.No.HFW_S-4STZE1LF)		
B				linear					
				±5°		scale X			
				dr	10/26/06		dwg no		
				engr	10/26/06	mm	sheet 1 of 1		
				chr	10/26/06		size		
				appd	10/27/06		A4		
sheet		revision	B				type		
index		sheet	1				Product Customer Drawing		

RECOMMENDED CABLE (FPC)

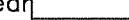
n : NO. OF CONDUCTORS



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

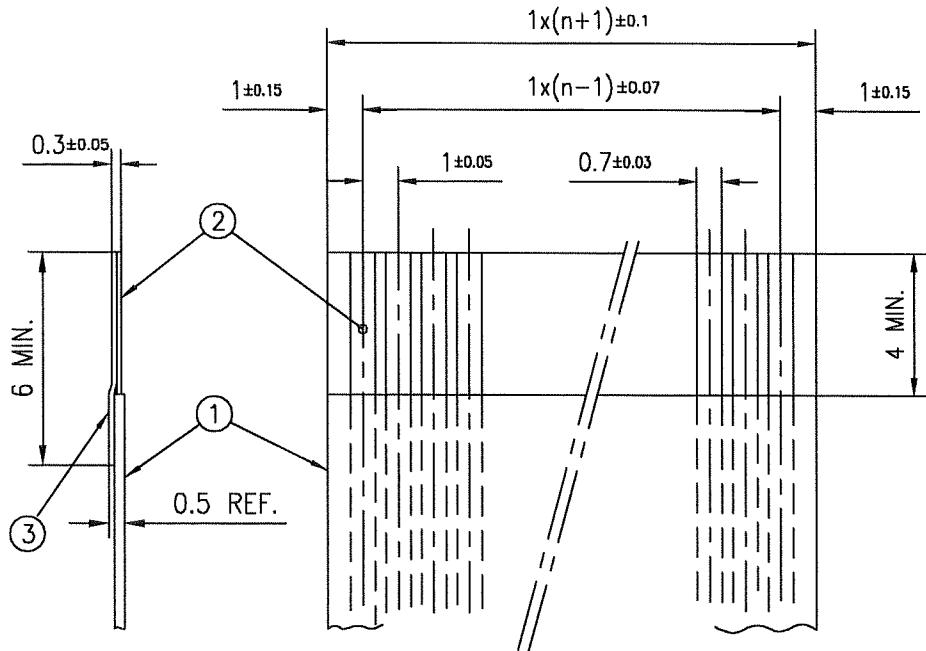
NOTES

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 ISO 1302	tolerance ISO 406 ISO 1101	projection 	product family	580F	CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified			title	RECOMMENDED CABLE		
A	J06-0107	H.T	3/20/06	angles	linear	mm 	(CAT.No.HFW__S-4ST__)			
B	J06-0435	H.T	10/26/06							
						scale χ				
				dr  10/26/06			dwg no FCI JSA 97117	dwg no	sheet 1 of 1	size
				engr  10/26/06						
				chr  10/26/06						
				appd  10/27/06						
sheet	revision	B							Rev.	
index	sheet	1							B	

RECOMMENDED CABLE (FFC)

n : NO. OF CONDUCTOR



A

A

B

B

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PT. NO.	DESCRIPTION	MATERIAL	NOTE
1	INSULATOR	FLAME RESISTING POLYESTER OR EQUIVARENT	_____
2	CONDUCTOR	COPPER FOIL	PLATING: LEAD FREE
3	SUPPORTING TAPE	FLAME RESISTING POLYESTER OR EQUIVARENT	_____

NOTES

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

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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			title	RECOMMENDED CABLE (CAT.No.HFW__S-4ST__)		
A	J06-0107	H.T	3/20/06	angles		linear		dwg no		
B	J06-0435	H.T	10/26/06					sheet 1 of 1 JSA 97118		
				dr	10/26/06		scale X			
				engr	10/26/06					
				chr	10/26/06					
				appd	10/27/06					
sheet		revision	B						Rev.	
index		sheet	1						B	