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List of "HFW__R-1/2STE1" customer document

DOCUMENT NO.	LIST
SC-HFWR01	SPEC.
JSA93575	CAT.NO.TABLE FOR 1mm SPACING SMT CONNECTOR (HFW__R-1/2ST_)
JSA93571	1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR (HFW__R-1ST_)
JSA93572	1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR (HFW__R-2ST_)
JSA93589	CAT.NO.TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN.(HFW__R-1/2STE1)
JSA93577	1mm SPACING SMT CONNECTOR (HFW__R-1STE1)
JSA93578	1mm SPACING SMT CONNECTOR (HFW__R-2STE1)
JSA93573	RECOMMENDED CABLE (FPC) (HFW__R-1/2_)
JSA93574	RECOMMENDED CABLE (FFC) (HFW__R-1/2_)

mat'l. code				surface 58/ISO 1302		tolerance ISO 406 ISO 1101		projection		product family 58NF				CODE JP			
ltr		ecn no		dr		date		tolerances unless otherwise specified		 mm scale X		title 1mm SPACING FPC/FFC CONNECTOR DOCUMENT LIST (Cat. No. : HFW__R-1/2STE1)					
A		J06-0413		H.T		10/4/'064		angles linear									
												dwg no sheet 1 of 1 size JSA 97191 A4					
sheet index		revision sheet		A		1						type Product Customer Drawing				Rev. A	

form: A4

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CAT. NO. & DIMENSIONS

(NOTE3)	NO. OF CONTACTS (n)	CAT. NO.	DIMENSIONS (NOTE2)		
			A ± 0.2	B ± 0.2	C ± 0.1
	4	HFW4R-1/2ST__	6.6	3	5.14
	5	HFW5R-1/2ST__	7.6	4	6.14
	6	HFW6R-1/2ST__	8.6	5	7.14
	7	HFW7R-1/2ST__	9.6	6	8.14
	8	HFW8R-1/2ST__	10.6	7	9.14
	9	HFW9R-1/2ST__	11.6	8	10.14
	10	HFW10R-1/2ST__	12.6	9	11.14
	11	HFW11R-1/2ST__	13.6	10	12.14
	12	HFW12R-1/2ST__	14.6	11	13.14
	13	HFW13R-1/2ST__	15.6	12	14.14
	14	HFW14R-1/2ST__	16.6	13	15.14
	15	HFW15R-1/2ST__	17.6	14	16.14
	16	HFW16R-1/2ST__	18.6	15	17.14
	17	HFW17R-1/2ST__	19.6	16	18.14
	18	HFW18R-1/2ST__	20.6	17	19.14
	19	HFW19R-1/2ST__	21.6	18	20.14
	20	HFW20R-1/2ST__	22.6	19	21.14
	21	HFW21R-1/2ST__	23.6	20	22.14
	22	HFW22R-1/2ST__	24.6	21	23.14
	23	HFW23R-1/2ST__	25.6	22	24.14
	24	HFW24R-1/2ST__	26.6	23	25.14
	25	HFW25R-1/2ST__	27.6	24	26.14
	26	HFW26R-1/2ST__	28.6	25	27.14
	27	HFW27R-1/2ST__	29.6	26	28.14
*	28	HFW28R-1/2ST__	30.6	27	29.14
*	29	HFW29R-1/2ST__	31.6	28	30.14
	30	HFW30R-1/2ST__	32.6	29	31.14

CAT. NO.

SERIES

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR FPC/FFC, CONTACT DIRECTION

1. LOWER CONTACT TYPE
2. UPPER CONTACT TYPE

FOR AUTOMATIC MOUNTING (SMT)

PACKAGE STYLE

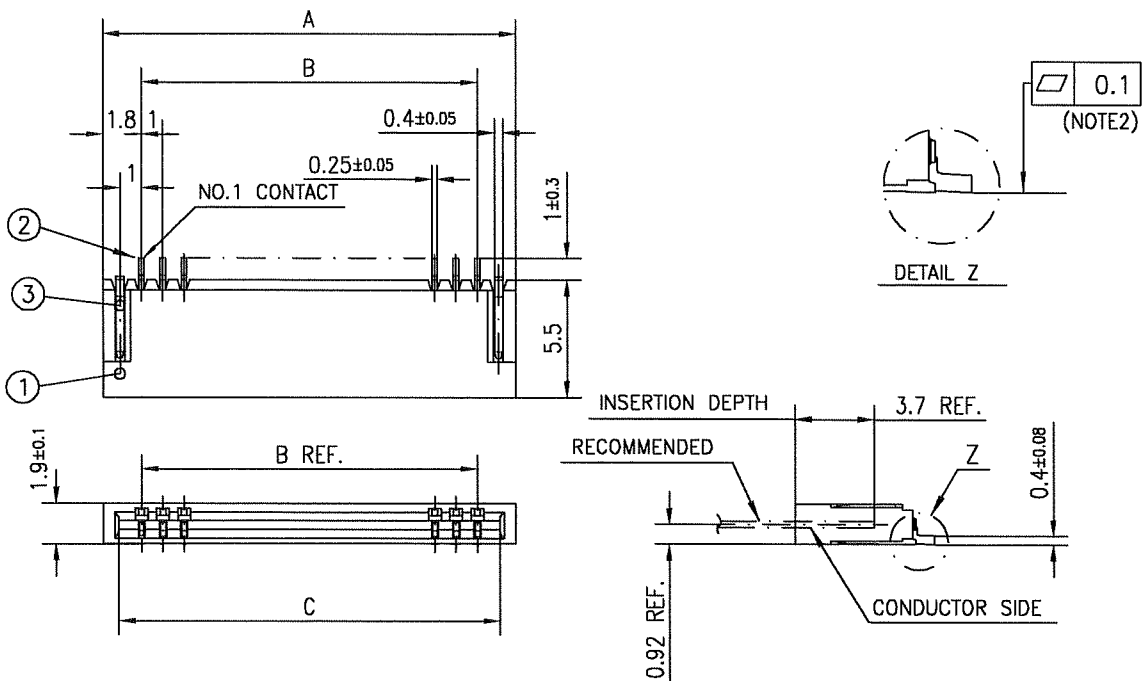
NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPS WITH AUTOMATIC MOUNTING (SMT).
2. SEE PART DRAWINGS FOR DIMENSIONS A~C.
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 58NF		CODE JP	
ltr	ecn no	dr	date	tolerances, unless otherwise specified		mm		title			
4		M.Y	7/15/97	angles linear		mm		CAT. NO. TABLE FOR 1mm SPACING SMT CONNECTOR (Cat. No. HFW__R-1/2ST__)			
5		M.I	4/10/98			scale X					
6		T.M	4/30/02								
A	J06-0413	H.T	10/4/06	dr	10/4/06	FCI		dwg no		sheet 1 of 1	size
				enrg	10/4/06			JSA 93575			A4
				chr	10/12/06			type		Product Customer Drawing	
				appd	10/12/06						
sheet index	revision	A									Rev. A
	sheet	1									

SC-HFWR01 JSA93571 93572 93589 93577 93578 93573 93574

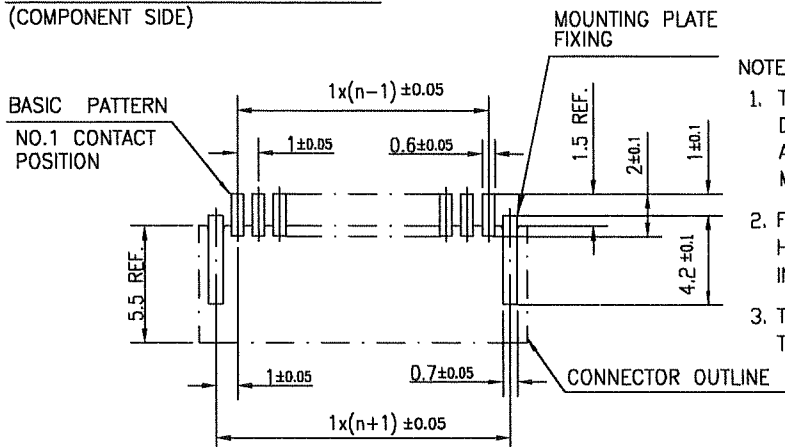
form: A4



PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	PA6T RESIN GLASS REINFORCED (UL94V-D)	1	COLOR:BLACK
2	CONTACT	PHOSPHOR BRONZE	n	PLATING:TIN ALLOY
3	MOUNTING PLATE		2	

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)

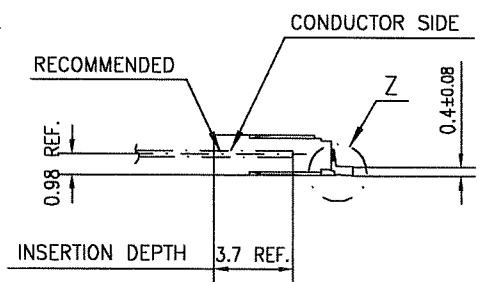
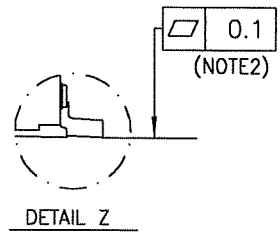
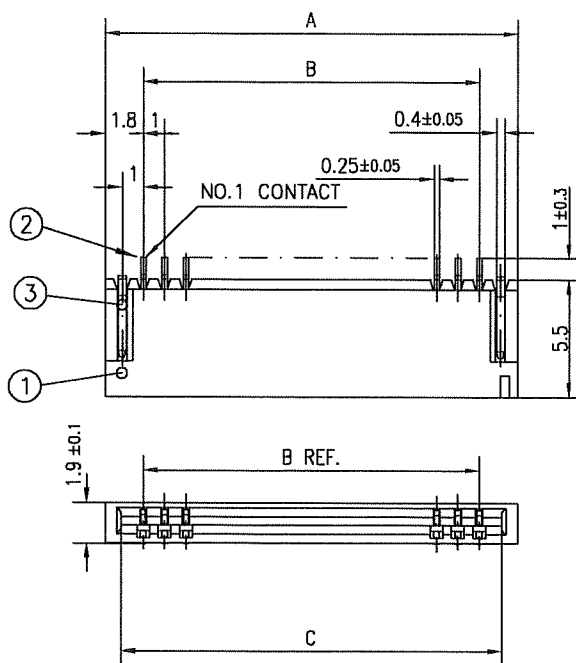


NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COTES WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS OF CONTACT TERMINAL FOR HOUSING MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR.

mat'l. code				surface 58 / tolerance ISO 1302 ✓ ISO 406 ISO 1101		projection		product family 58NF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title			
1	—	M.Y	3/4/'96	angles	linear	mm		1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR			
2	—	M.I	3/7/'97			scale X		(Cat. No. HFW__R-1ST__)			
A	J06-0413	H.T	10/4/'06					dwg no		sheet 1 of 1	size
						FCI		JSA 93571		A4	
								type Product Customer Drawing			
sheet index		revision A								Rev. A	
sheet 1											

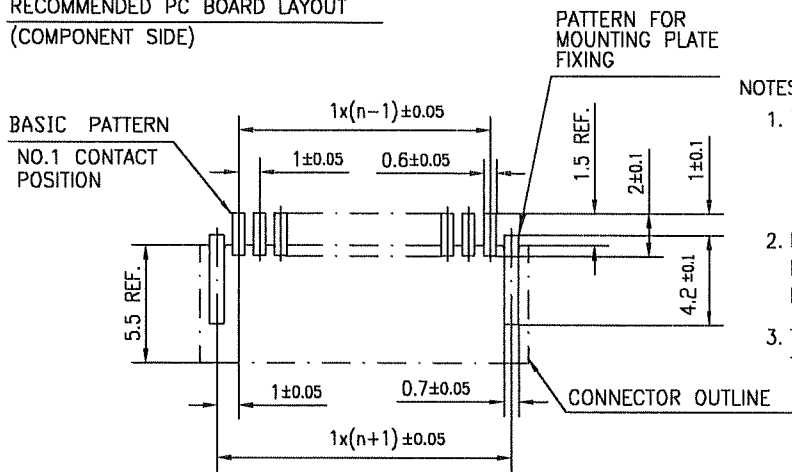
SC-HFWR01 JSA93575 93573 93574
form: A4



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

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 FOR HOUSING MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS PRODUCT IS UPPER CONTACT TYPE CONNECTOR.

mat'l. code				surface 58 / tolerance ISO 1302 ✓ ISO 406 ISO 1101		projection		product family 58NF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title			
1	—	M.Y	3/1/'96	±0.2		mm		1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR			
2	—	M.I	8/23/'96	linear		mm		(Cat. No. HFWR_R-2ST_)			
A	J06-0413	H.T	10/4/'06			scale X		dwg no sheet 1 of 1 size			
				dr		FCI		JSA 93572 A4			
				enr				type Product Customer Drawing			
				chr							
				appd							
sheet index		revision A								Rev. A	
sheet 1											

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CAT. NO. & DIMENSIONS

(NOTE4)	NO. OF CONTACTS (n)	CAT. NO. (NOTE2)	DIMENSIONS (NOTE3)		
			E ± 5	F ± 0.3	G ± 0.1
	4	HFW4R-1/2STE1	28.4	24	—
	5	HFW5R-1/2STE1	28.4	24	—
	6	HFW6R-1/2STE1	28.4	24	—
	7	HFW7R-1/2STE1	28.4	24	—
	8	HFW8R-1/2STE1	28.4	24	—
	9	HFW9R-1/2STE1	28.4	24	—
	10	HFW10R-1/2STE1	28.4	24	—
	11	HFW11R-1/2STE1	28.4	24	—
	12	HFW12R-1/2STE1	28.4	24	—
	13	HFW13R-1/2STE1	28.4	24	—
	14	HFW14R-1/2STE1	28.4	24	—
	15	HFW15R-1/2STE1	36.4	32	28.4
	16	HFW16R-1/2STE1	36.4	32	28.4
	17	HFW17R-1/2STE1	36.4	32	28.4
	18	HFW18R-1/2STE1	36.4	32	28.4
	19	HFW19R-1/2STE1	48.4	44	40.4
	20	HFW20R-1/2STE1	48.4	44	40.4
	21	HFW21R-1/2STE1	48.4	44	40.4
	22	HFW22R-1/2STE1	48.4	44	40.4
	23	HFW23R-1/2STE1	48.4	44	40.4
	24	HFW24R-1/2STE1	48.4	44	40.4
	25	HFW25R-1/2STE1	48.4	44	40.4
	26	HFW26R-1/2STE1	48.4	44	40.4
	27	HFW27R-1/2STE1	48.4	44	40.4
*	28	HFW28R-1/2STE1	48.4	44	40.4
*	29	HFW29R-1/2STE1	48.4	44	40.4
	30	HFW30R-1/2STE1	60.4	56	52.4

CAT. NO.

HFW (n) R - 1 ST E1

SERIES

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR FPC/FFC, CONTACT DIRECTION

1. LOWER CONTACT TYPE
2. UPPER CONTACT TYPE

FOR AUTOMATIC MOUNTING (SMT)

TAPE PACKAGING

NOTES

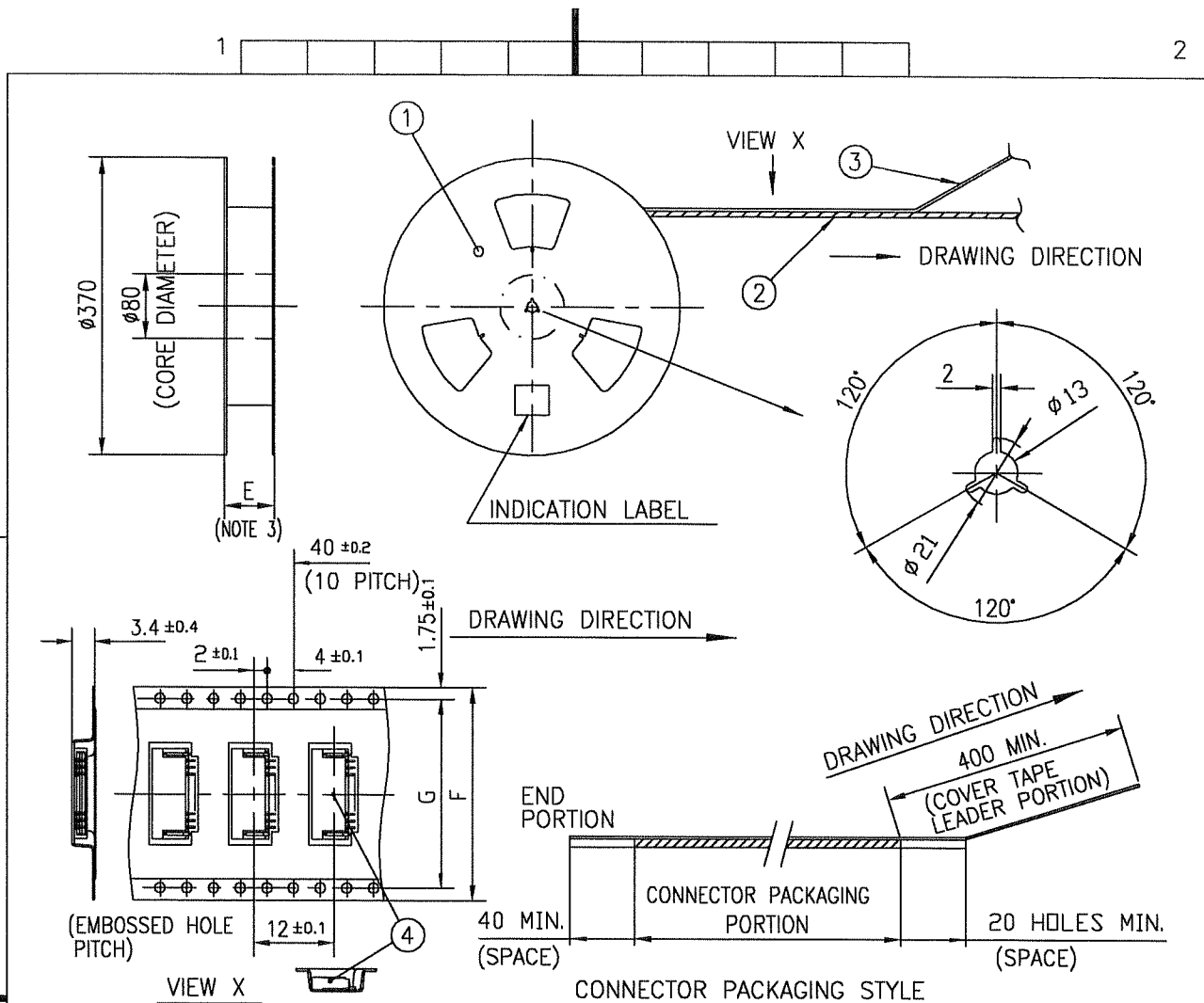
1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPE WITH AUTOMATIC MOUNTING (SMT).
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
3. SEE PART DRAWINGS FOR DIMENSIONS E~G.
4. PLEASE CONSULT US IN CASE OF USING PARTS WITH * MARK.

mat'l. code				surface 58 / tolerance ISO 1302 ✓ ISO 406 ISO 1101		projection		product family 58NF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title			
4	—	M.Y	7/15/97	angles	linear	mm		CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN. (Cat. No. HFW__R-1/2STE1)			
5	—	M.I	4/10/98			scale X					
6	—	T.M	4/30/02								
A	J06-0413	H.T	10/4/06	dr	10/4/06	FCI		dwg no		sheet 1 of 1	size
				enr	10/4/06			JSA 93589			A4
				chr	10/12/06			type		Product Customer Drawing	
				appd	10/12/06						
sheet index	revision	A									Rev. A
	sheet	1									

SC-HFWR01 JSA93575 93577 93578
form: A4

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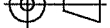
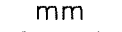
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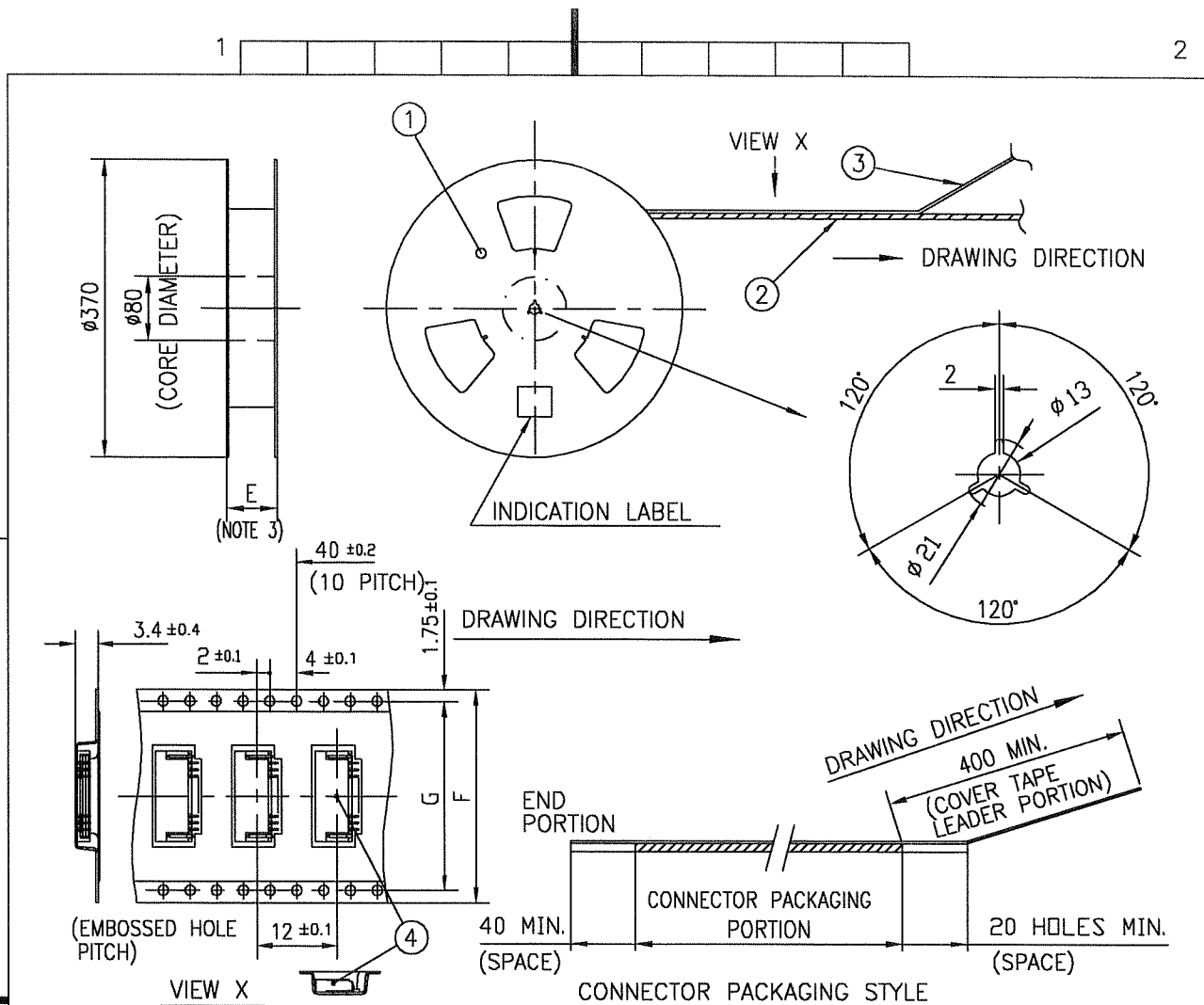
PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	CARDBOARD	1	COLOR:WHITE
2	PLASTIC (EMBOSSD) TAPE	_____	PET	_____	COLOR:TRANSPARENCY
3	COVER	_____	POLYESTER	_____	COLOR:TRANSPARENCY
4	CONNECTOR	HFW__R-1ST__	SEE ATTACHED DWG.	2000	LOWER CONTACT TYPE

NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR DESIGNED TO TERMINATE 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 (EMBOSSD) TAPE AND REEL.
- E DIMENSION IS PORTION OF THE CORE.

mat'l. code				surface 58 ISO 1302		tolerance ISO 406 ISO 1101		projection 		product family 58NF				CODE JP		
ltr	ecn no	dr	date	tolerances unless otherwise specified						title 1mm SPACING SMT CONNECTOR (Cat. No. HFW__R-1STE1)						
1	—	T.M	5/1/'02	angles		±0.5										
A	J06-0413	H.T	10/4/'06	linear												
				±0.5'				scale X								
				dr	10/14/06				dwg no				sheet 1 of 1		size	
				enr	10/14/06				JSA 93577				A4			
				chr	10/12/06											
				appd	10/12/06											
sheet index		revision sheet		A	1											Rev A

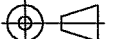
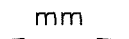
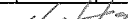
SC-HFWR01 JSA93589
form: A4



PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	CARDBOARD	1	COLOR:WHITE
2	PLASTIC (EMBOSSED) TAPE	_____	PET	_____	COLOR:TRANSPARENCY
3	COVER	_____	POLYESTER	_____	COLOR:TRANSPARENCY
4	CONNECTOR	HFW__R-2ST__	SEE ATTACHED DWG.	2000	UPPER CONTACT TYPE

NOTES

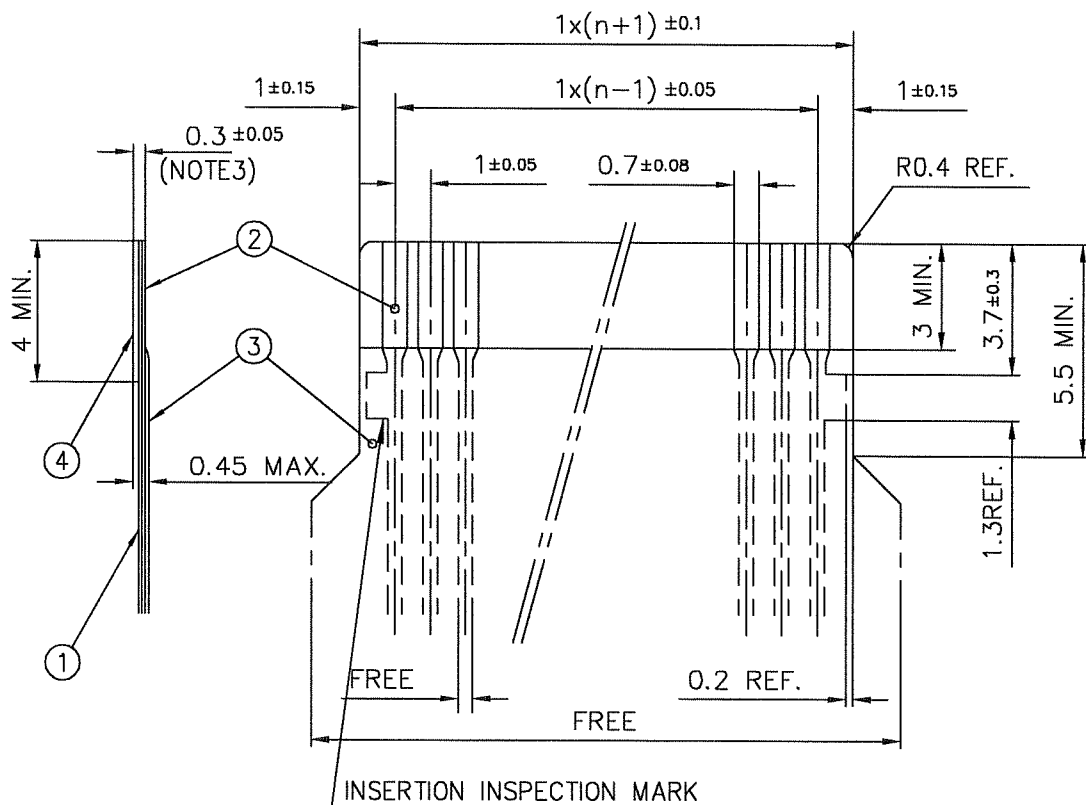
1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPES WITH AUTOMATIC MOUNTING (SMT).
2. SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSSED) TAPE AND REEL.
3. E DIMENSION IS PORTION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

mat'l. code				surface 58 ✓ ISO 1302		tolerance ISO 406 ISO 1101		projection 		product family 58NF				CODE JP			
ltr	ecn no	dr	date	tolerances unless otherwise specified							title 1mm SPACING SMT CONNECTOR (Cat. No. HFW__R-2STE1)						
1	—	T.M	5/1/'02	angles	linear		±5										
A	J06-0413	H.T	10/4/'06	±5'					scale			dwg no JSA 93578 sheet 1 of 1 size A4					
				dr			10/4/'06										
				enr			10/21/'06										
				chr			10/12/'06										
				appd			10/12/'06										
sheet index		revision		A												Rev A	
		sheet		1													

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form: A4

RECOMMENDED CABLE (FPC)

n : NO. OF CONDUCTORS



PT. NO.	DESCRIPTION	MATERIAL	THICKNESS (μm)
1	BASE FILM	POLYIMIDE OR POLYESTER OR EQUIVALENT	25
2	CONDUCTOR	COPPER FOIL(PLATING : SOLDER $1\mu\text{m}$ 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 58NF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title			
A	J06-0413	H.T	10/4/'06			mm		RECOMMENDED CABLE			
				angles linear		scale X		(Cat. No. HFW__R-1/2__)			
				dr		FCJ		dwg no sheet 1 of 1 size			
				enr				JSA 93573 A4			
				chr				type Product Customer Drawing			
				appd							
sheet index	revision sheet	A	1					Rev. A			

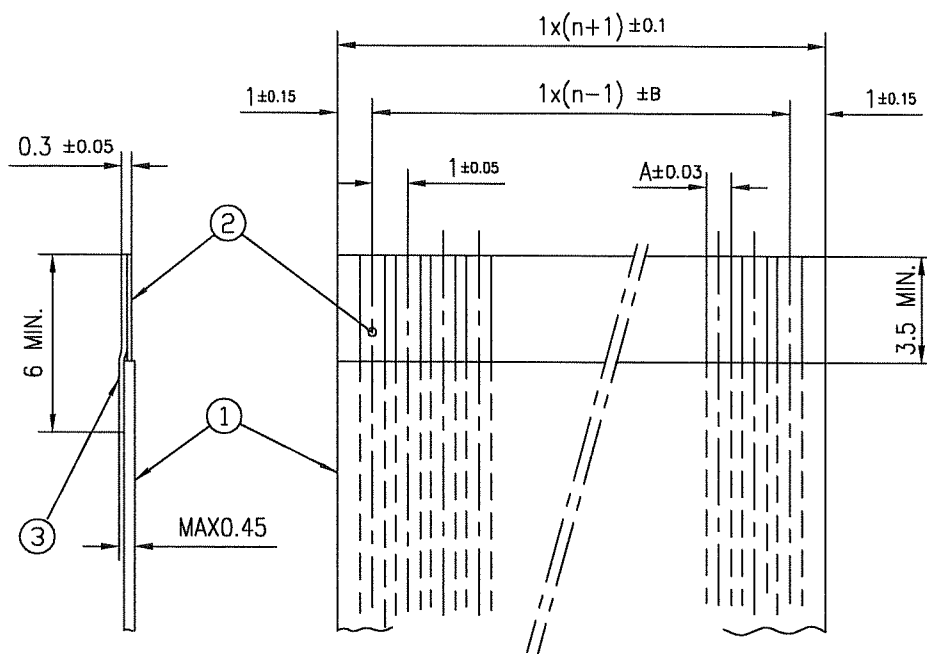
form: A4

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RECOMMENDED CABLE (FFC)

n : NO. OF CONDUCTORS



(NOTE 3)	DIMENSION A	TOLERANCE B
1	0.7	0.1
2	0.6	0.07

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.
3. BOTH COMBINATION IS ALLOWED.

mat'l. code				surface 58/ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection		product family 58NF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified				mm		title			
1	—	T.M	4/30/'02	angles linear				mm		RECOMMENDED CABLE			
A	J06-0413	H.T	10/4/'06					scale X		(Cat. No. HFW__R-1/2__)			
				dr		10/12/06				dwg no		sheet 1 of 1	
				enr		10/14/06				JSA 93574		size A4	
				chr		10/12/06							
				appd		10/12/06							
sheet index		revision sheet 1										Rev. A	

form: A4

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