

CAT. NO. & DIMENSIONS

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

CAT. NO. HFW (n) R - 5 ST __ LF

SERIES

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR CIC, CONTACT DIRECTION

5 : LOWER CONTACT TYPE
6 : UPPER CONTACT TYPE

FOR AUTOMATIC MOUNTING (SMT)

PACKAGE STYLE

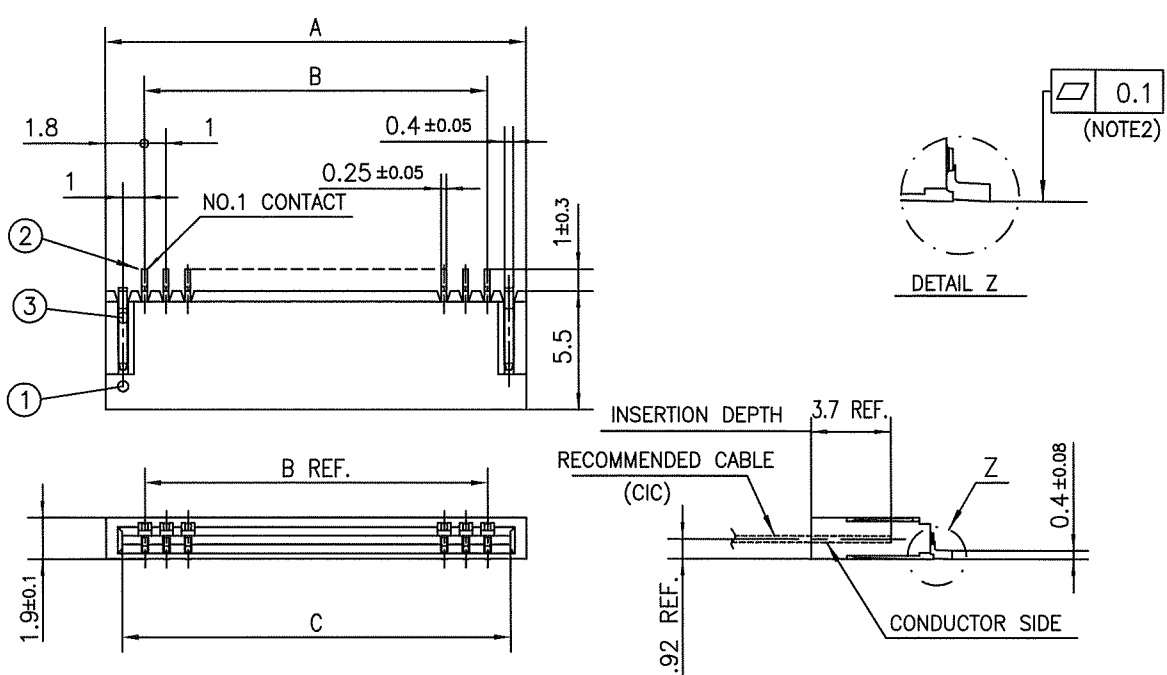
LEAD FREE

NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE CIC AND COPE 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 / ISO 1302 ✓		tolerance ISO 406 / ISO 1101		projection		product family 58NF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title		CAT. NO. TABLE FOR 1mm SPACING SMT CONNECTOR (Cat. No. HFW__R-5/6ST__LF)			
A	J07-0397	H.T.	7/27/07	angles	linear	scale X		dwg no		sheet 1 of 1		size	
								JSA 97339				A4	
sheet index				revision A				type		Product Customer Drawing		Rev. A	
sheet 1													

SC-HFWR05 form: A4 JSA97340 97341 97342 97343 97344 97345



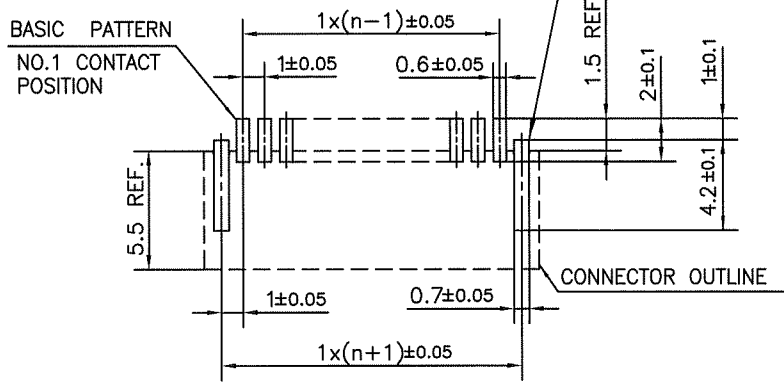
PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	PA6T RESIN GLASS REINFORCED (UL94V-0)	1	COLOR:BLACK
2	CONTACT	PHOSPHOR BRONZE	n	PLATING:TIN
3	MOUNTING PLATE		2	(LEAD FREE)

n : NO. OF CONTACTS

NOTES

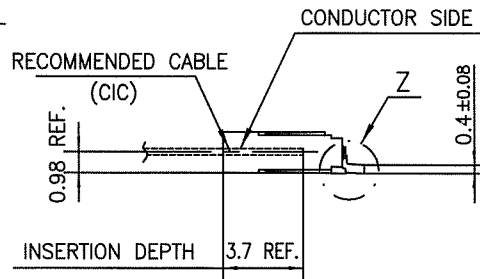
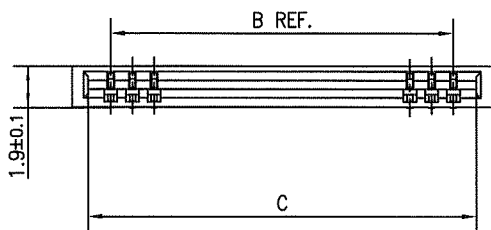
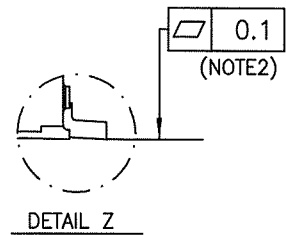
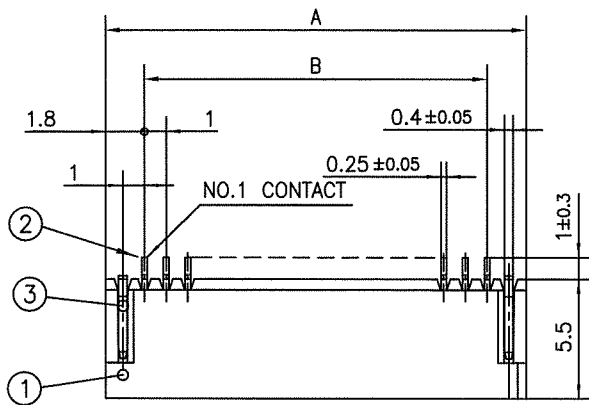
1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE CIC AND COPE WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS OF CONTACT TERMINAL FOR HOUSING MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR.
4. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER 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.

RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)



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	J07-0397	H.T	7/27/07	angles linear ±0.2		scale		1mm SPACING SURFACE MOUNT CIC CONNECTOR (Cat.No. HFW__R-5ST__LF)			
				dr		7/27/07		dwg no		sheet 1 of 1 size	
				enr		7/27/07		JSA 97340		A4	
				chr		7/27/07		type Product Customer Drawing			
				appd		7/27/07					
sheet index		revision sheet		A						Rev A	

SC-HFWR JSA97339 Form: A4

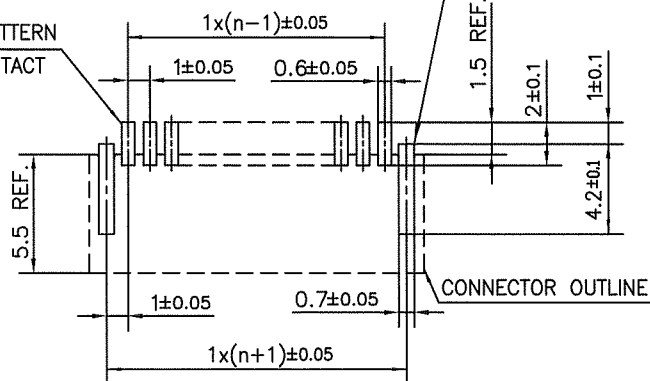


PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	PA6T RESIN GLASS REINFORCED (UL94V-0)	1	COLOR:BLACK
2	CONTACT	PHOSPHOR BRONZE	n	PLATING:TIN
3	MOUNTING PLATE		2	(LEAD FREE)

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)

BASIC PATTERN
NO.1 CONTACT
POSITION



NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE CIC AND COPE 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.
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 58NF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title			
A	J07-0397	H.T	7/27/07	angles	linear ±0.2	scale X		1mm SPACING SURFACE MOUNT CIC CONNECTOR (Cat. No. HFW__R-6ST__LF)			
				dr	7/27/07			dwg no		sheet 1 of 1	size
				enr	7/27/07			JSA 97341		A4	
				chr	7/27/07						
				appd	7/27/07						
sheet index		revision	A	type Product Customer Drawing							
sheet		1	Rev. A								

SC-HFWR05 JSA97339
form: A4

CAT. NO. & DIMENSIONS

(NOTE4)	NO. OF CONTACTS (n)	CAT. NO. (NOTE2)	DIMENSIONS (NOTE3)		
			E ± 5	F ± 0.3	G ± 0.1
	4	HFW4R-5/6STE1LF	28.4	24	—
	5	HFW5R-5/6STE1LF	28.4	24	—
	6	HFW6R-5/6STE1LF	28.4	24	—
	7	HFW7R-5/6STE1LF	28.4	24	—
	8	HFW8R-5/6STE1LF	28.4	24	—
	9	HFW9R-5/6STE1LF	28.4	24	—
	10	HFW10R-5/6STE1LF	28.4	24	—
	11	HFW11R-5/6STE1LF	28.4	24	—
	12	HFW12R-5/6STE1LF	28.4	24	—
	13	HFW13R-5/6STE1LF	28.4	24	—
	14	HFW14R-5/6STE1LF	28.4	24	—
	15	HFW15R-5/6STE1LF	36.4	32	28.4
	16	HFW16R-5/6STE1LF	36.4	32	28.4
	17	HFW17R-5/6STE1LF	36.4	32	28.4
	18	HFW18R-5/6STE1LF	36.4	32	28.4
	19	HFW19R-5/6STE1LF	48.4	44	40.4
	20	HFW20R-5/6STE1LF	48.4	44	40.4
	21	HFW21R-5/6STE1LF	48.4	44	40.4
	22	HFW22R-5/6STE1LF	48.4	44	40.4
	23	HFW23R-5/6STE1LF	48.4	44	40.4
	24	HFW24R-5/6STE1LF	48.4	44	40.4
	25	HFW25R-5/6STE1LF	48.4	44	40.4
	26	HFW26R-5/6STE1LF	48.4	44	40.4
	27	HFW27R-5/6STE1LF	48.4	44	40.4
*	28	HFW28R-5/6STE1LF	48.4	44	40.4
*	29	HFW29R-5/6STE1LF	48.4	44	40.4
	30	HFW30R-5/6STE1LF	60.4	56	52.4

CAT. NO.

HFW (n) R - 5 ST E1 LF

SERIES

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR CIC, CONTACT DIRECTION

5 : LOWER CONTACT TYPE

6 : UPPER CONTACT TYPE

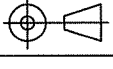
FOR AUTOMATIC MOUNTING (SMT)

TAPE PACKAGING

LEAD FREE

NOTES

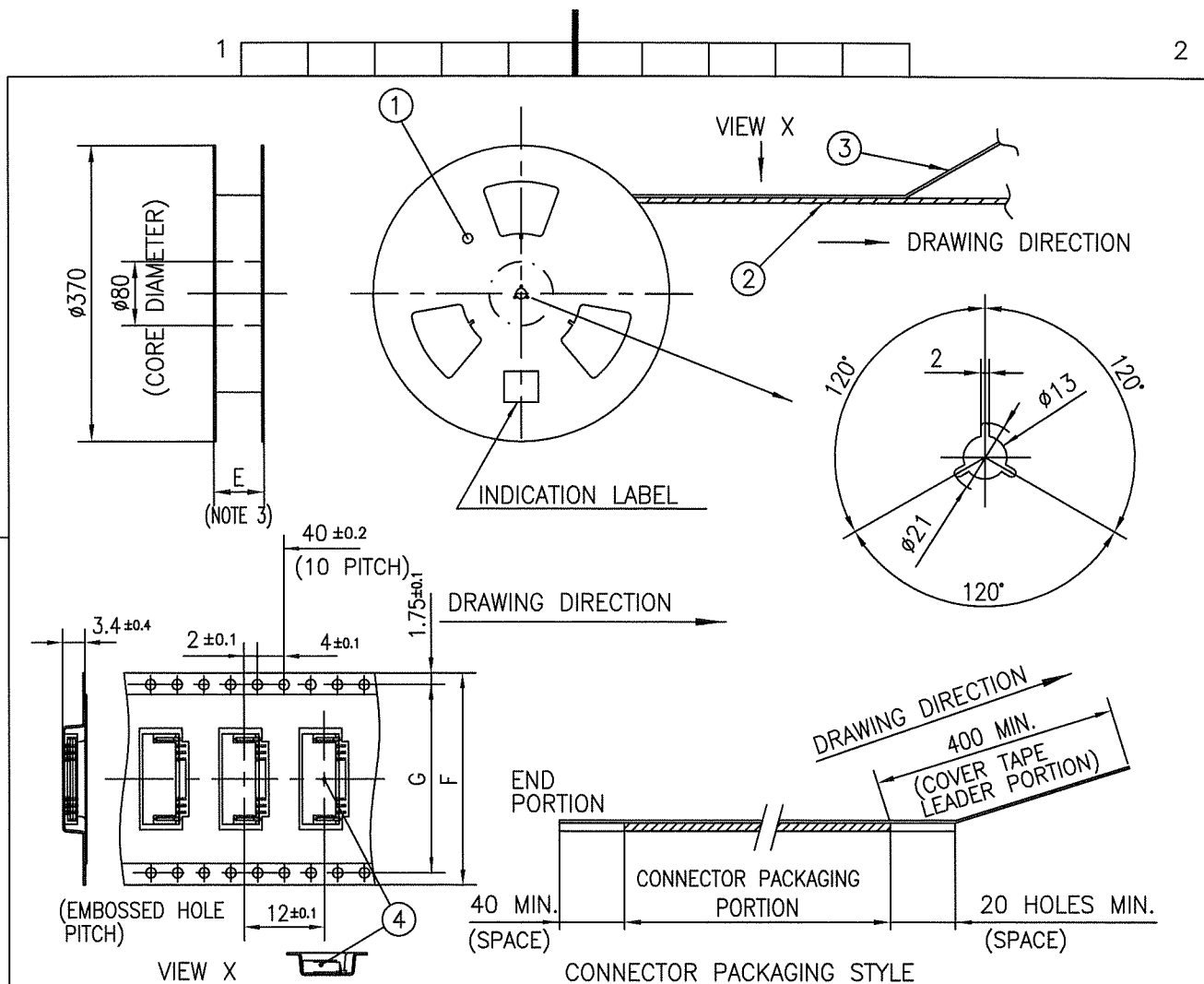
1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE CIC AND COPE WITH AUTOMATIC MOUNTING (SMT).
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
3. SEE PART DRAWINGS FOR DIMENSIONS E~G.
4. PLEASE CONSULT US IN CASE OF USING PARTS WITH * MARK.

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 scale X		title CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN. (Cat.No. HFW__R-5/6STE1LF)			
A	J07-0397	H.T	7/27/07	angles	linear						
				dr				dwg no		sheet 1 of 1	size
				engr				JSA 97342			A4
				chr				type Product Customer Drawing			
				appd							
sheet index	revision	A									Rev A

SC-HFWR05 JSA97339 97343 97344
form: A4

1

2



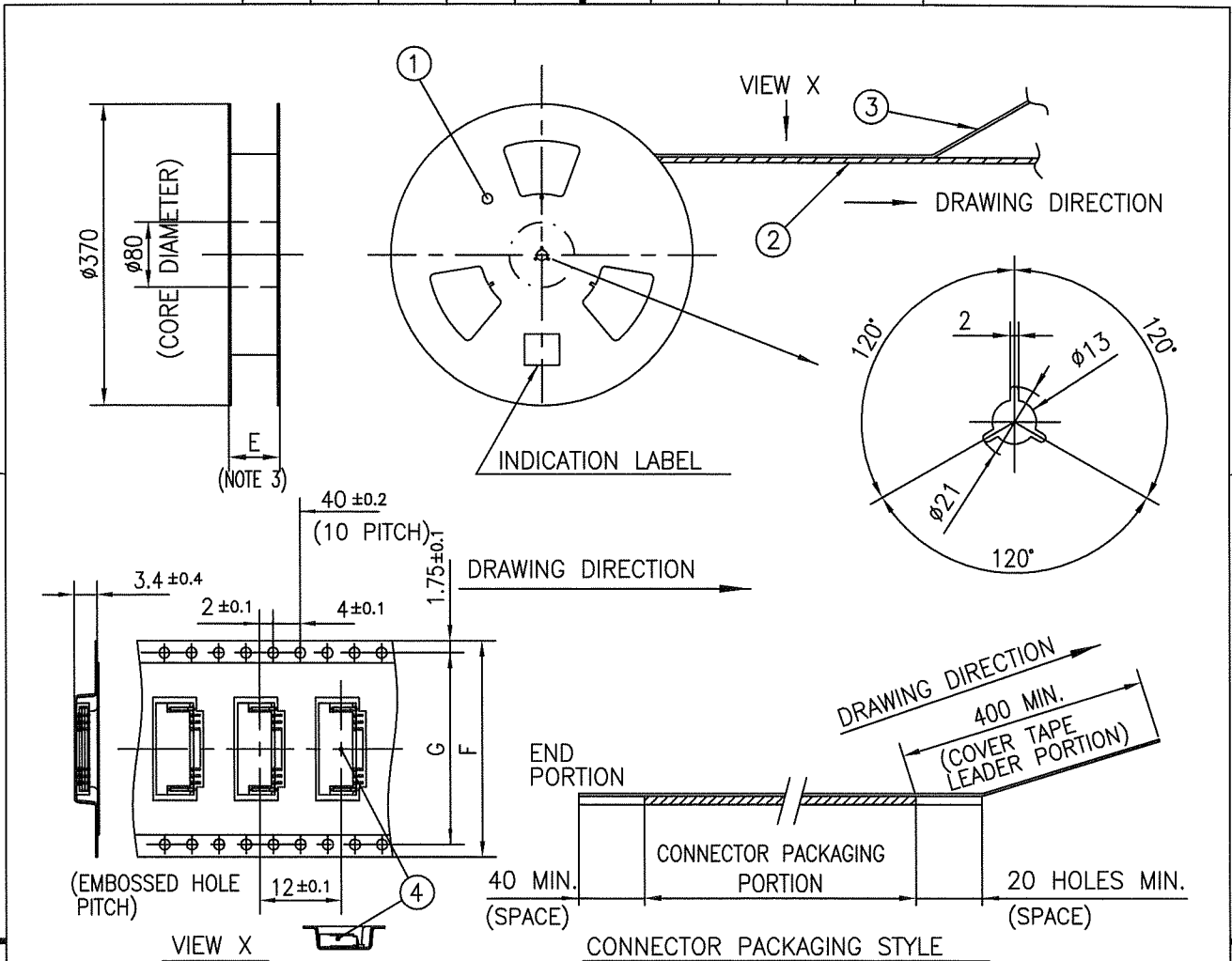
PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	—	CARDBOARD	1	COLOR:WHITE
2	PLASTIC (EMBOSSSED) TAPE	—	PET	—	COLOR:TRANSPARENCY
3	COVER	—	POLYESTER	—	COLOR:TRANSPARENCY
4	CONNECTOR	HFWR__R-5ST__LF	SEE ATTACHED DWG.	2000	LOWER CONTACT TYPE

NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR DESIGNED TO TERMINATE CIC 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.
- E DIMENSION IS PORTION OF THE CORE.

mat'l. code				surface 58 ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection mm	product family 58NF	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm	title 1mm SPACING SMT CONNECTOR (Cat.No. HFWR__R-5STE1LF)	
A	J07-0397	H.T.	7/27/07	angles	linear			
				±5°		scale	dwg no	sheet 1 of 1
				dr	7/27/07	FCI	JSA 97343	
				enr	7/27/07			
				chr	7/27/07			
				appd	7/27/07			
sheet index	revision	A					type Product Customer Drawing	
sheet	1							Rev. A

SC-HFWR05 JSA97342
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	HFWR__R-6ST__LF	SEE ATTACHED DWG.	2000	UPPER CONTACT TYPE

NOTES

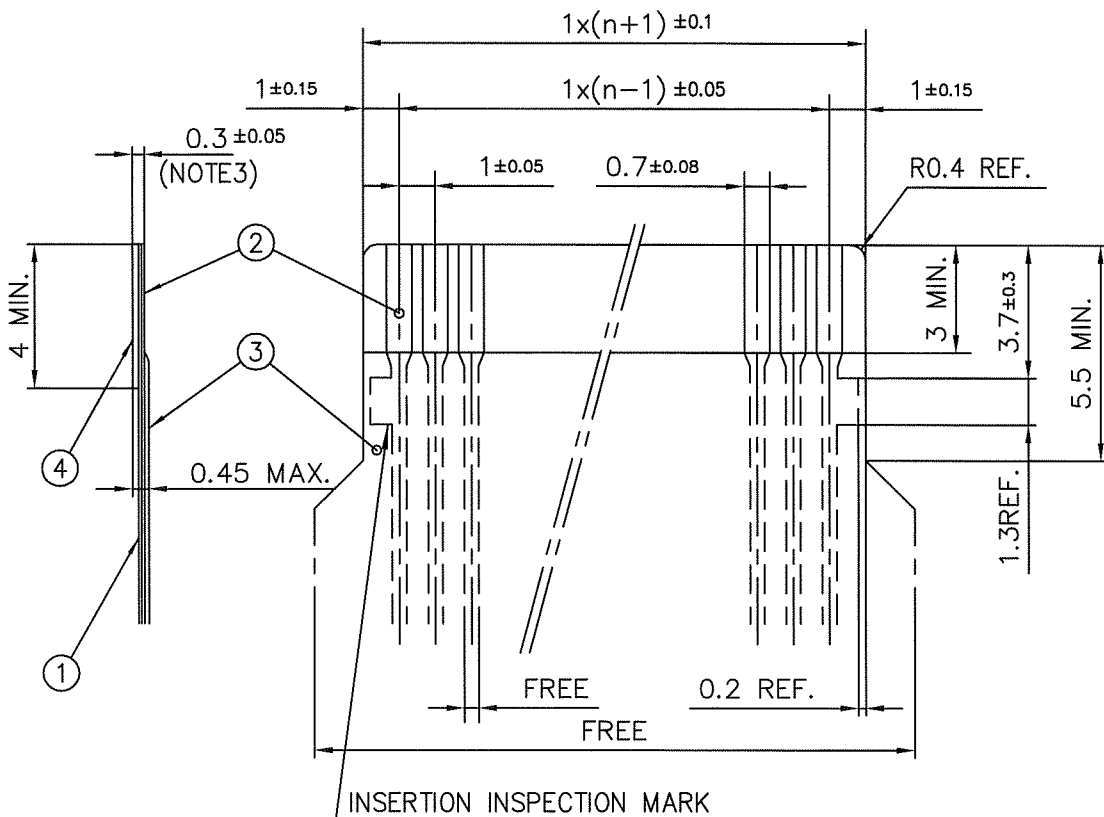
1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR DESIGNED TO TERMINATE CIC AND COPES WITH AUTOMATIC MOUNTING (SMT).
2. SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSSED) TAPE AND REEL.
3. E DIMENSION IS PORTION OF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

mat'l. code		surface 58 / tolerance ISO 1302 ✓ / ISO 406 / ISO 1101		projection		product family 58NF		CODE JP	
ltr		ecn no		dr		date		title	
A		J07-0397		H.T		7/27/07		1mm SPACING SMT CONNECTOR (Cat.No. HFWR__R-6STE1LF)	
				angles		linear		mm	
				±5°				scale X	
				dr		7/27/07		dwg no	
				enr		7/27/07		sheet 1 of 1	
				chr		7/27/07		size	
				appd		7/27/07		A4	
sheet index		revision		A				type	
sheet		1						Product Customer Drawing	

SC-HFWR05 JSA97342
form: A4

RECOMMENDED CABLE (CIC)

n : NO. OF CONDUCTORS



PT. NO.	DESCRIPTION	MATERIAL	THICKNESS (μm)	
1	BASE FILM	POLYIMIDE OR POLYESTER OR EQUIVALENT	75	25
2	CONDUCTOR	CARBON PASTE OVER SILVER PASTE	10MIN.	
3	OVERLAY	POLYIMIDE OR POLYESTER OR EQUIVALENT	—	
4	SUPPORTING TAPE	POLYESTER OR POLYIMIDE OR EQUIVALENT	188	250

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 58NF		CODE JP		
ltr	ecn no	dr	date	tolerances, unless otherwise specified				mm 		title RECOMMENDED CABLE (CIC) (Cat. No. HFW__R-5/6__)				
A	J07-0397	H.T	7/27/07	angles	linear									
				dr	7/27/07				dwg no		sheet 1 of 1		size	
				enr	7/27/07				JSA 97345				A4	
				chr	7/27/07				type		Product		Customer Drawing	
				appd	7/27/07									
sheet index	revision	A	1									Rev. A		