List of "HFW__R-1/2STE1LF" customer document

DOCUMENT NO.	LIST
SC-HFWR02	SPEC.
JSA95923	CAT.NO.TABLE FOR 1mm SPACING SMT CONNECTOR (HFW__R-1/2ST_LF)
JSA95924	1mm SPACING SURFACE MOUNT FPC/FFC CONNECCTOR (HFW__R-1ST_LF)
JSA95925	1mm SPACING SURFACE MOUNT FPC/FFC CONNECCTOR (HFW__R-2ST_LF)
JSA95926	CAT.NO.TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN.(HFW__R-1/2STE1LF)
JSA95927	1mm SPACING SMT CONNECTOR (HFW__R-1STE1LF)
JSA95928	1mm SPACING SMT CONNECTOR (HFW__R-2STE1LF)
JSA93573	RECOMMENDED CABLE (FPC) (HFW__R-1/2__)
JSA93574	RECOMMENDED CABLE (FFC) (HFW__R-1/2__)
BJM-HFWR101	HANDLING PROCEDURES

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ltr	ecn no	dr	date
A	J05-0056	H.T	'05/2/4
B	J06-0413	H.T	10/4/'06

mat'l. code

surface 58 ISO 1302 ✓ | tolerance ISO 406 ISO 1101

tolerances unless otherwise specified: angles | linear

projection | mm | scale X

dr		10/4/06
engr		10/10/06
chr	J.Ono	10/12/06
appd	S.Nedomm	10/12/'06

product family 58NF | CODE JP

title: 1mm SPACING FPC/FFC CONNECTOR DOCUMENT LIST (Cat. No. : HFW__R-1/2STE1LF)

dwg no JSA 96335 | sheet 1 of 1 | size A4

type Product Customer Drawing

sheet index	revision	B
	sheet	1

Rev. B

form: A4

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__LF	6.6	3	5.14
	5	HFW5R-1/2ST__LF	7.6	4	6.14
	6	HFW6R-1/2ST__LF	8.6	5	7.14
	7	HFW7R-1/2ST__LF	9.6	6	8.14
	8	HFW8R-1/2ST__LF	10.6	7	9.14
	9	HFW9R-1/2ST__LF	11.6	8	10.14
	10	HFW10R-1/2ST__LF	12.6	9	11.14
	11	HFW11R-1/2ST__LF	13.6	10	12.14
	12	HFW12R-1/2ST__LF	14.6	11	13.14
	13	HFW13R-1/2ST__LF	15.6	12	14.14
	14	HFW14R-1/2ST__LF	16.6	13	15.14
	15	HFW15R-1/2ST__LF	17.6	14	16.14
	16	HFW16R-1/2ST__LF	18.6	15	17.14
	17	HFW17R-1/2ST__LF	19.6	16	18.14
	18	HFW18R-1/2ST__LF	20.6	17	19.14
	19	HFW19R-1/2ST__LF	21.6	18	20.14
	20	HFW20R-1/2ST__LF	22.6	19	21.14
	21	HFW21R-1/2ST__LF	23.6	20	22.14
	22	HFW22R-1/2ST__LF	24.6	21	23.14
	23	HFW23R-1/2ST__LF	25.6	22	24.14
	24	HFW24R-1/2ST__LF	26.6	23	25.14
	25	HFW25R-1/2ST__LF	27.6	24	26.14
	26	HFW26R-1/2ST__LF	28.6	25	27.14
	27	HFW27R-1/2ST__LF	29.6	26	28.14
*	28	HFW28R-1/2ST__LF	30.6	27	29.14
*	29	HFW29R-1/2ST__LF	31.6	28	30.14
	30	HFW30R-1/2ST__LF	32.6	29	31.14

CAT. NO. HFW (n) R – 1 ST ___ LF

- 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
- LEAD FREE

NOTES

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

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ltr	ecn no	dr	date
A	J04-0027	H.T	4/6/'04
B	J05-0056	H.T	2/4/'05
C	J06-0413	H.T	10/4/'06

mat'l. code | surface 58 ISO 1302 | tolerance ISO 406 ISO 1101 | tolerances unless otherwise specified: angles, linear | projection | mm | scale X

dr	[signature]	10/12/'06
engr	[signature]	10/12/'06
chr	[signature]	10/12/'06
appd	[signature]	10/12/'06

product family 58NF | CODE JP

title: CAT. NO. TABLE FOR 1mm SPACING SMT CONNECTOR (Cat. No. HFW__R-1/2ST__LF)

dwg no JSA 95923 | sheet 1 of 1 | size A4

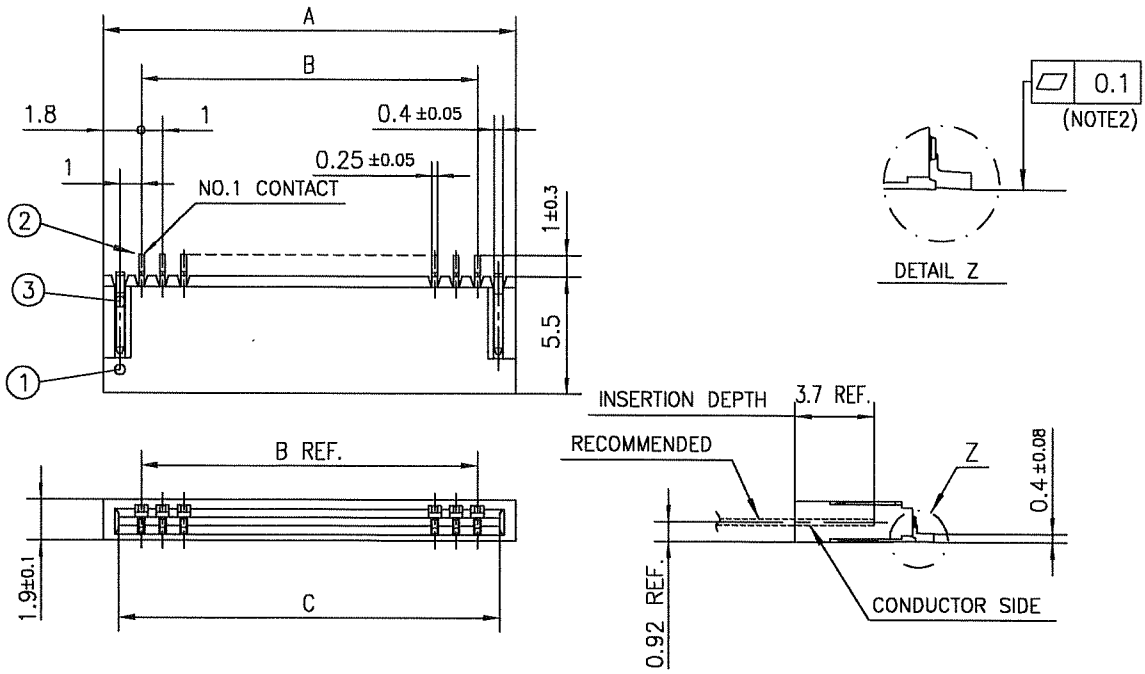
type Product Customer Drawing

sheet index	revision	C
	sheet	1

Rev. C

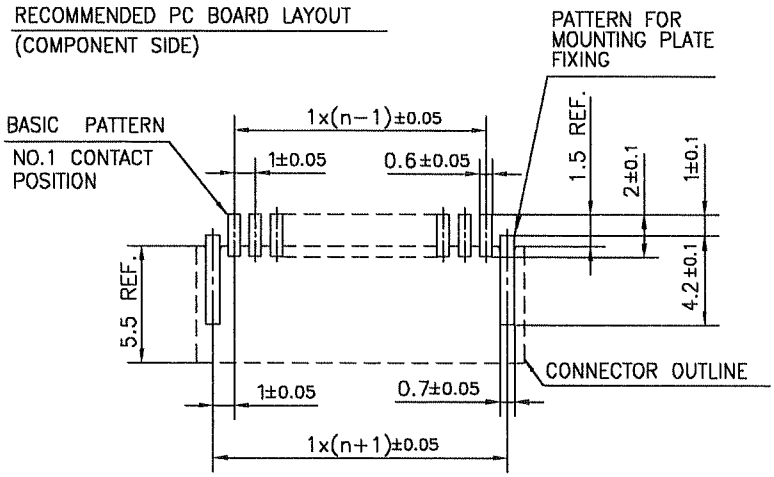
SC-HFWR02 form: A4 JSA95924 95925 95926 95927 95928 93573 93574

PDM: Rev:C STATUS:Released Printed: Jan 28, 2008



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 FPC/FFC AND COPES 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.

ltr	ecn no	dr	date
A	J04-0027	H.T	4/6/'04
B	J05-0056	H.T	2/4/'05
C	J05-0732	H.T	10/28/'05
D	J06-0413	H.T	10/4/'06

mat'l. code

surface 58 ISO 1302

tolerance ISO 406 ISO 1101

tolerances unless otherwise specified: angles; linear ±0.2

projection

mm

scale X

dr		10/4/'06
engr		10/4/'06
chr		10/12/'06
appd	S. Audouin	10/12/'06

product family 58NF

CODE JP

title: 1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR (Cat.No. HFW__R-1ST__LF)

dwg no JSA 95924

sheet 1 of 1

size A4

type Product Customer Drawing

sheet index	revision	D
	sheet	1

Rev. D

SC-HFWR02 JSA95923
form: A4

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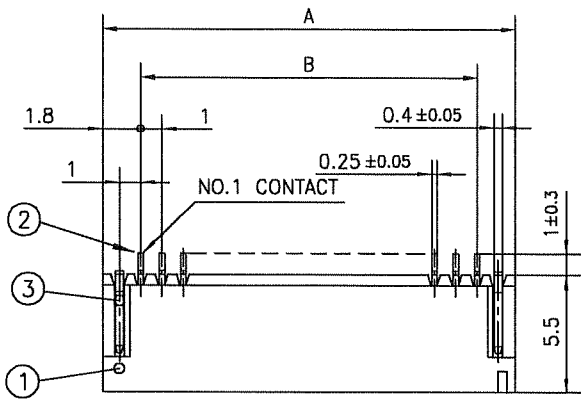
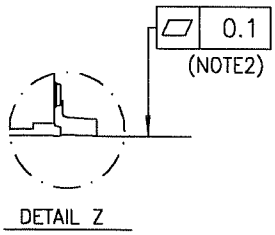
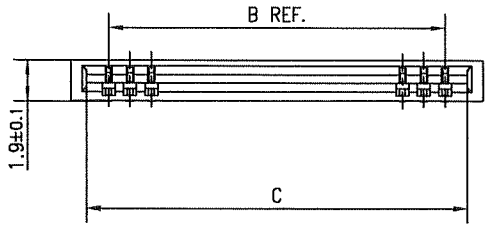
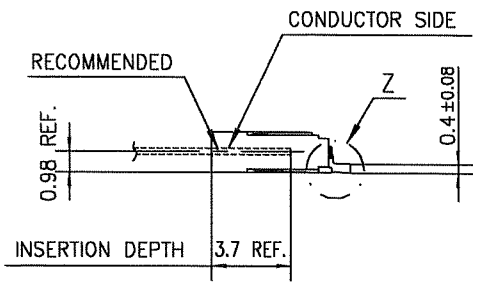
PDM: Rev:D STATUS:Released Printed: Jan 28, 2008





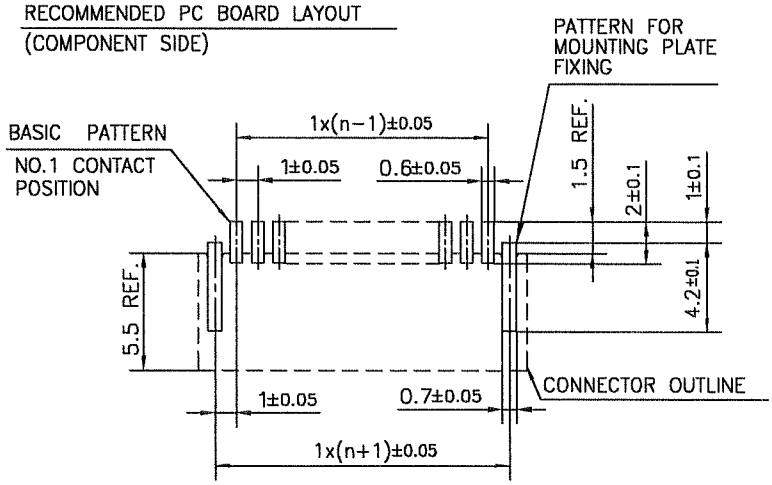




PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	PA6T RESIN GLASS REINFORCED (UL94V-0)	1	COLOR:BLACK
2	CONTACT	PHOSPHOR BRONZE	n	PLATING:TIN
3	MOUNTING PLATE		2	(LEAD FREE)

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE)



NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPES 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.

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ltr	ecn no	dr	date
A	J04-0027	H.T	4/6/'04
B	J05-0056	H.T	2/4/'05
C	J05-0732	H.T	10/28/'05
D	J06-0413	H.T	10/4/'06

mat'l. code

surface 58 ISO 1302

tolerance ISO 406 ISO 1101

tolerances unless otherwise specified
angles ±0.2
linear

projection

mm

scale X

dr		10/4/'06
engr		10/10/'06
chr		10/12/'06
appd		10/12/'06

product family 58NF

CODE JP

title
1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR
(Cat. No. HFW__R-2ST__LF)

dwg no JSA 95925

sheet 1 of 1

size A4

type Product Customer Drawing

sheet index	revision	D
	sheet	1

Rev. D

SC-HFWR02 JSA95923
form: A4

PDM: Rev:D STATUS:Released Printed: Jan 28, 2008

CAT. NO. & DIMENSIONS

(NOTE4)	NO. OF CONTACTS (n)	CAT. NO. (NOTE2)	DIMENSIONS (NOTE3)		
			E ± 5	F ± 0.3	G ± 0.1
	4	HFW4R-1/2STE1LF	28.4	24	—
	5	HFW5R-1/2STE1LF	28.4	24	—
	6	HFW6R-1/2STE1LF	28.4	24	—
	7	HFW7R-1/2STE1LF	28.4	24	—
	8	HFW8R-1/2STE1LF	28.4	24	—
	9	HFW9R-1/2STE1LF	28.4	24	—
	10	HFW10R-1/2STE1LF	28.4	24	—
	11	HFW11R-1/2STE1LF	28.4	24	—
	12	HFW12R-1/2STE1LF	28.4	24	—
	13	HFW13R-1/2STE1LF	28.4	24	—
	14	HFW14R-1/2STE1LF	28.4	24	—
	15	HFW15R-1/2STE1LF	36.4	32	28.4
	16	HFW16R-1/2STE1LF	36.4	32	28.4
	17	HFW17R-1/2STE1LF	36.4	32	28.4
	18	HFW18R-1/2STE1LF	36.4	32	28.4
	19	HFW19R-1/2STE1LF	48.4	44	40.4
	20	HFW20R-1/2STE1LF	48.4	44	40.4
	21	HFW21R-1/2STE1LF	48.4	44	40.4
	22	HFW22R-1/2STE1LF	48.4	44	40.4
	23	HFW23R-1/2STE1LF	48.4	44	40.4
	24	HFW24R-1/2STE1LF	48.4	44	40.4
	25	HFW25R-1/2STE1LF	48.4	44	40.4
	26	HFW26R-1/2STE1LF	48.4	44	40.4
	27	HFW27R-1/2STE1LF	48.4	44	40.4
*	28	HFW28R-1/2STE1LF	48.4	44	40.4
*	29	HFW29R-1/2STE1LF	48.4	44	40.4
	30	HFW30R-1/2STE1LF	60.4	56	52.4

CAT. NO. HFW (n) R – 1 ST E1 LF

- 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
- LEAD FREE

NOTES

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 E~G.
4. PLEASE CONSULT US IN CASE OF USING PARTS WITH * MARK.

ltr	ecn no	dr	date
A	J04-0027	H.T	4/6/'04
B	J05-0056	H.T	2/4/'05
C	J06-0413	H.T	10/4/'06

mat'l. code | surface ISO 1302 58 | tolerance ISO 406 ISO 1101 | tolerances unless otherwise specified: angles, linear | projection | mm | scale X

dr H. Takahashi 10/4/'06
engr H. Takahashi 10/4/'06
chr T. Ono 10/12/'06
appd S. Ueda 10/12/'06

product family 58NF | CODE JP

title: CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN. (Cat.No. HFW__R-1/2STE1LF)

dwg no JSA 95926 | sheet 1 of 1 | size A4

type Product Customer Drawing

sheet index	revision	C
	sheet	1

Rev. C

SC-HFWR02 form: A4 JSA95923 95927 95928

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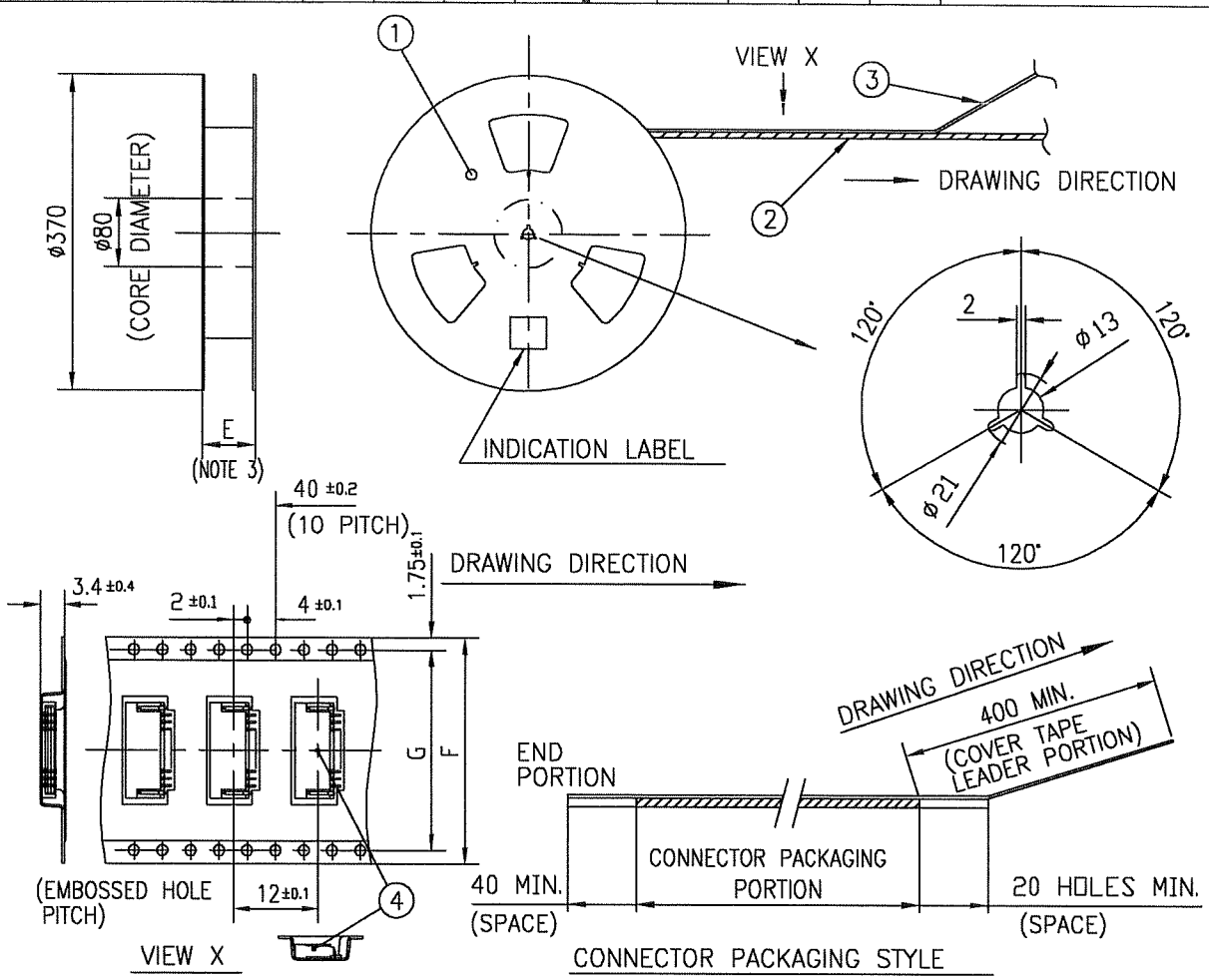

PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	———	CARDBOARD	1	COLOR:WHITE
2	PLASTIC (EMBOSSED) TAPE	———	PET	——	COLOR:TRANSPARENCY
3	COVER	———	POLYESTER	——	COLOR:TRANSPARENCY
4	CONNECTOR	HFW__R-1ST__LF	SEE ATTACHED DWG.	2000	LOWER CONTACT TYPE

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.

ltr	ecn no	dr	date
A	J04-0027	H.T	4/6/'04
B	J05-0056	H.T	2/4/'05
C	J06-0413	H.T	10/4/'06

mat'l. code | surface ISO 1302 58 | tolerance ISO 406 ISO 1101 | tolerances unless otherwise specified: angles ±5°, linear ±5 | projection | mm | scale X

dr	H.Hayashi	10/11/'06
engr	H.Hayashi	10/11/'06
chr	T.Ito	10/12/'06
appd	S.Nakano	10/12/'06

product family 58NF | CODE JP

title: 1mm SPACING SMT CONNECTOR (Cat.No. HFW__R-1STE1LF)

dwg no JSA 95927 | sheet 1 of 1 | size A4

type Product Customer Drawing

sheet index	revision sheet	C 1

Rev. C

SC-HFWR02 JSA95926
form: A4

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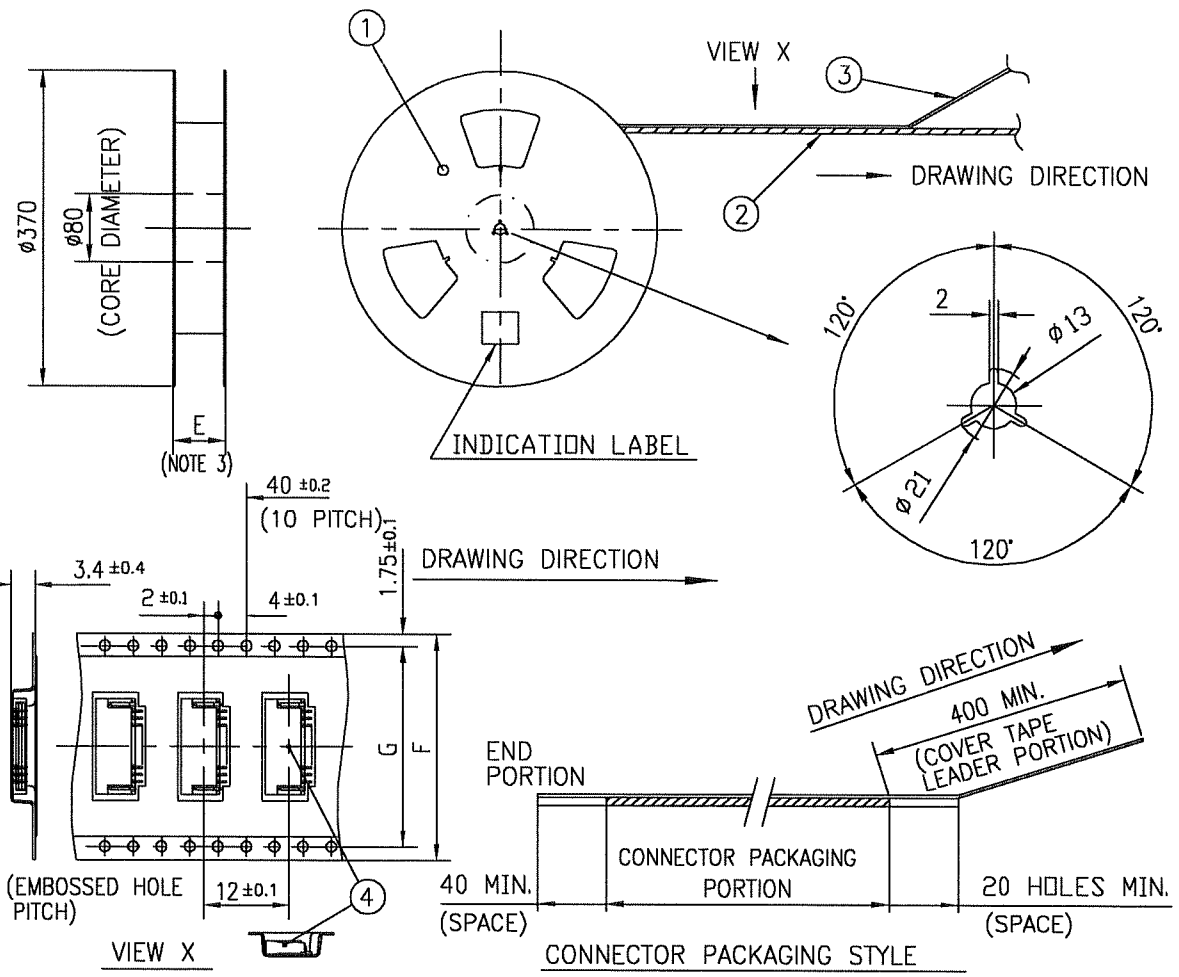
PDM: Rev:C STATUS:Released Printed: Jan 28, 2008



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__-LF	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.

ltr	ecn no	dr	date
A	J04-0027	H.T	4/6/'04
B	J05-0056	H.T	2/4/'05
C	J06-0413	H.T	10/4/'06

mat'l. code

surface ISO 1302 58

tolerance ISO 406 ISO 1101

tolerances unless otherwise specified: angles ±5°; linear ±5

projection

mm

scale X

dr	H. Yoshida	10/4/'06
engr	H. Yoshida	10/4/'06
chr	T. Ono	10/12/'06
appd	S. Murakami	10/12/'06

product family 58NF

CODE JP

title: 1mm SPACING SMT CONNECTOR (Cat.No. HFW__R-2STE1LF)

dwg no JSA 95928

sheet 1 of 1

size A4

type Product Customer Drawing

sheet index	revision	C
	sheet	1

Rev. C

SC-HFWR02 JSA95926
form: A4

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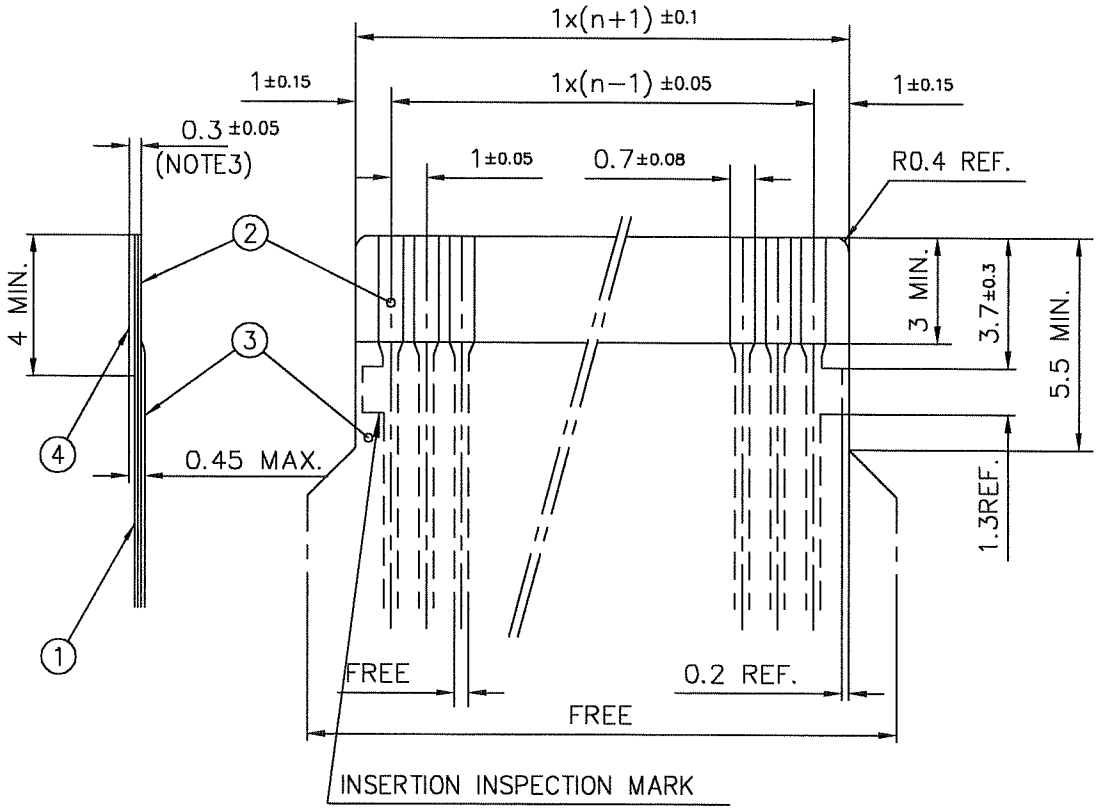
PDM: Rev:C STATUS:Released Printed: Jan 28, 2008

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 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 ISO 1302	tolerance ISO 406 ISO 1101	projection
	tolerances unless otherwise specified		mm
	angles	linear	scale X

ltr	ecn no	dr	date
A	J06-0413	H.T	10/4/'06

dr		10/4/'06
engr		10/5/'06
chr		10/12/'06
appd		10/12/'06

product family	58NF	CODE JP
title	RECOMMENDED CABLE (Cat. No. HFW__R-1/2____)	
dwg no	JSA 93573	sheet 1 of 1
size	A4	
type	Product Customer Drawing	

sheet index	revision	sheet	Rev.
	A	1	A

form: A4

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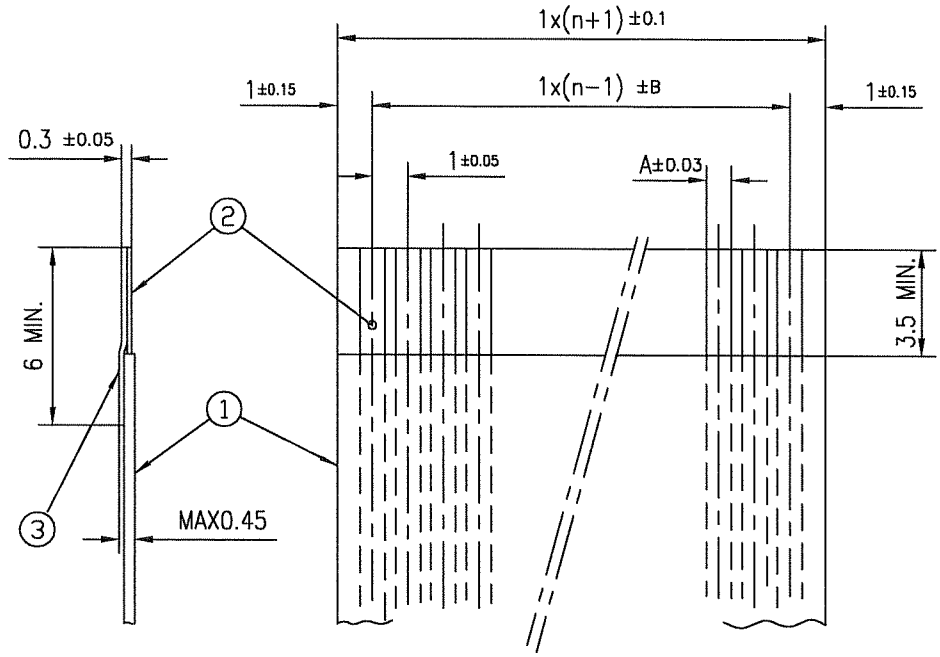
PDM: Rev:A STATUS:Released Printed: Jan 28, 2008

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.

ltr	ecn no	dr	date
1	———	T.M	4/30/'02
A	J06-0413	H.T	10/4/'06

mat'l. code

surface ISO 1302 58

tolerance ISO 406 ISO 1101

tolerances unless otherwise specified: angles; linear

projection

mm

scale X

dr		10/4/06
engr		10/4/06
chr		10/12/06
appd	S. Deslauriers	10/13/06

product family 58NF

CODE JP

title: RECOMMENDED CABLE (Cat. No. HFW__R-1/2___)

dwg no JSA 93574

sheet 1 of 1

size A4

type Product Customer Drawing

sheet index	revision	A
	sheet	1

Rev. A

form: A4

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PDM: Rev:A STATUS:Released Printed: Jan 28, 2008