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mat'l. code				surface ISO 1302 ☒		tolerance ISO 406 ISO 1101		projection 		product family 58EF									
ltr		ecn no		dr		date		tolerances unless otherwise specified						title 0.5mm SPACING FPC/FFC CONNECTOR DOCUMENT LIST (Cat. No. : SFV__R-1/2STE1LF)					
A		J04-0462		H.T		'04/12/17		angles											
B		J05-0227		H.T		'05/4/14		linear											
C		J06-0372		H.T		'06/9/17						scale χ		dwg no JSA 96143 sheet 1 of 1 size A4					
sheet index		revision sheet		C		1								type Product Customer Drawing					
														Rev. C					

form: A4

1

2

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

DOCUMENT NO.	LIST
SC-SFV03	SPEC.
JSA96144	CAT.NO.TABLE FOR 0.5mm CONTACT SPACING CONNECTOR (SFV__R-1/2ST_LF)
JSA96145	CONNECTOR USED FOR FPC/FFC WITH 0.5mm CONTACT SPACING (SFV__R-1ST_LF)
JSA96146	CONNECTOR USED FOR FPC/FFC WITH 0.5mm CONTACT SPACING (SFV__R-2ST_LF)
JSA96147	CAT.NO.TABLE FOR PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-1/2STE1LF)
JSA96148	PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-1STE1LF)
JSA96149	PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-2STE1LF)
JSA92456	RECOMMENDED CABLE (FPC) (SFV__R-1/2ST__)
JSA92457	RECOMMENDED CABLE (FFC) (SFV__R-1/2ST__)
BJM-SFV101	HANDLING PROCEDURES

A

B

C

D

CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO.	DIMENSIONS (NOTE2)			
		A ± 0.2	B ± 0.2	C ± 0.1	D ± 0.1
4	SFV4R-1/2ST__LF	7.5	5.9	15	2.7
5	SFV5R-1/2ST__LF	8.0	6.4	2.0	3.2
6	SFV6R-1/2ST__LF	8.5	6.9	2.5	3.7
7	SFV7R-1/2ST__LF	9.0	7.4	3.0	4.2
8	SFV8R-1/2ST__LF	9.5	7.9	3.5	4.7
9	SFV9R-1/2ST__LF	10.0	8.4	4.0	5.2
10	SFV10R-1/2ST__LF	10.5	8.9	4.5	5.7
11	SFV11R-1/2ST__LF	11.0	9.4	5.0	6.2
12	SFV12R-1/2ST__LF	11.5	9.9	5.5	6.7
13	SFV13R-1/2ST__LF	12.0	10.4	6.0	7.2
14	SFV14R-1/2ST__LF	12.5	10.9	6.5	7.7
15	SFV15R-1/2ST__LF	13.0	11.4	7.0	8.2
16	SFV16R-1/2ST__LF	13.5	11.9	7.5	8.7
17	SFV17R-1/2ST__LF	14.0	12.4	8.0	9.2
18	SFV18R-1/2ST__LF	14.5	12.9	8.5	9.7
19	SFV19R-1/2ST__LF	15.0	13.4	9.0	10.2
20	SFV20R-1/2ST__LF	15.5	13.9	9.5	10.7
21	SFV21R-1/2ST__LF	16.0	14.4	10.0	11.2
22	SFV22R-1/2ST__LF	16.5	14.9	10.5	11.7
23	SFV23R-1/2ST__LF	17.0	15.4	11.0	12.2
24	SFV24R-1/2ST__LF	17.5	15.9	11.5	12.7
25	SFV25R-1/2ST__LF	18.0	16.4	12.0	13.2
26	SFV26R-1/2ST__LF	18.5	16.9	12.5	13.7
27	SFV27R-1/2ST__LF	19.0	17.4	13.0	14.2
28	SFV28R-1/2ST__LF	19.5	17.9	13.5	14.7
29	SFV29R-1/2ST__LF	20.0	18.4	14.0	15.2
30	SFV30R-1/2ST__LF	20.5	18.9	14.5	15.7
31	SFV31R-1/2ST__LF	21.0	19.4	15.0	16.2
32	SFV32R-1/2ST__LF	21.5	19.9	15.5	16.7
33	SFV33R-1/2ST__LF	22.0	20.4	16.0	17.2
34	SFV34R-1/2ST__LF	22.5	20.9	16.5	17.7
35	SFV35R-1/2ST__LF	23.0	21.4	17.0	18.2

CAT. NO.

SFV (n) R - 1 ST __ LF

SERIES NAME

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 USED FOR FPC AND COPES WITH AUTOMATIC MOUNTING (SMT).
2. SEE PART DRAWINGS FOR DIMENSIONS A-D.

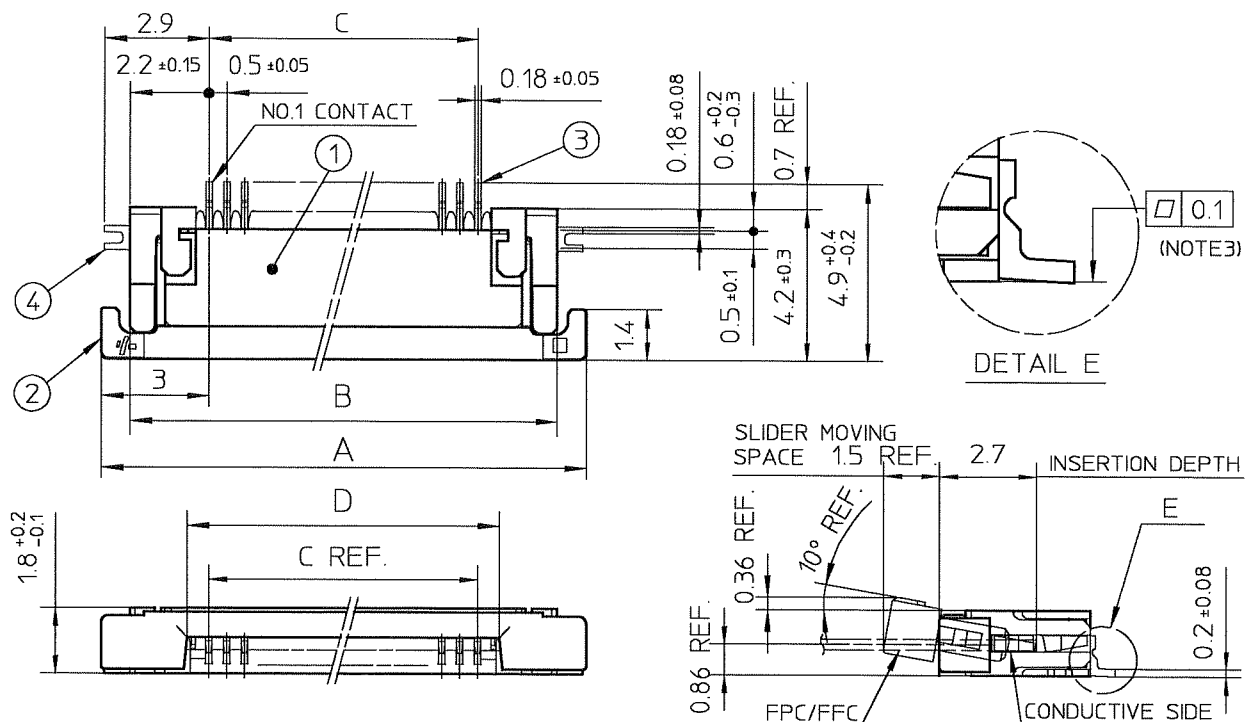
mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection		product family 58EF			
ltr	ecn no	dr	date	tolerances unless otherwise specified						title CAT. NO. TABLE FOR 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-1/2ST__LF)			
A	J04-0462	H.T	'04/12/17	angles	linear								
B	J05-0227	H.T	'05/4/14							dwg no JSA 96144 sheet 1 of 1 size A4			
C	J06-0372	H.T	'06/9/17										
				dr	H. Shouji 9/7/06					type Product Customer Drawing			
				engr	H. Shouji 9/7/06								
				chr	R. Shouji 9/8/06								
				appd	J. Shouji 9/11/06								
sheet index	revision sheet	C	1										

SC-SFV03 JSA96145, 96146, 96147, 96148, 96149, 92456, 92457
form: A4



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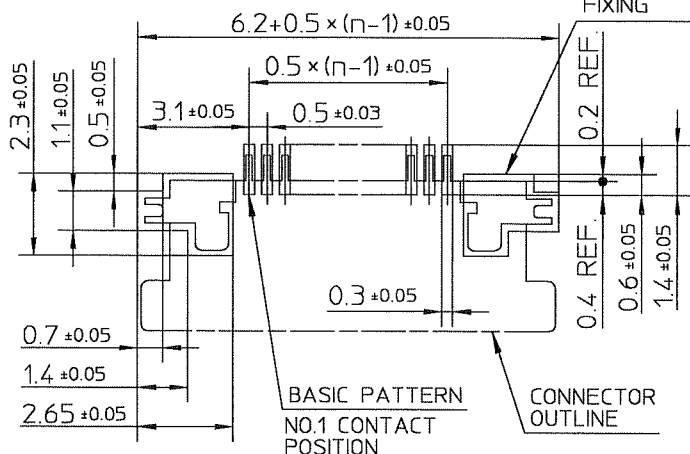


PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	POLYAMIDE RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK
2	SLIDER	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BROWN
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : MATTE PURE TIN Ni UNDER PLATED (LEAD FREE)
4	MOUNTING PLATE		2	

RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)

PATTERN FOR MOUNTING PLATE FIXING

n : NO. OF CONTACTS



NOTES

- THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND COPE WITH AUTOMATIC MOUNTING (SMT).
- THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR.
- FLATNESS OF CONTACT TERMINAL AND MOUNTING PLATE MUST BE WITHIN TOLERANCE IN E PORTION DETAILED DRAWING.
- THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family 58EF			
lfr	ecn no	dr	date	tolerances unless otherwise specified			title CONNECTOR USED FOR FPC/FFC WITH 0.5 mm CONTACT SPACING (Cat No. : SFV__R-1ST__LF)			
A	J04-0462	H.T	'04/12/17	angles	linear					
B	J05-0227	H.T	'05/4/14				dwg no JSA 96145 sheet 1 of 1 size A4			
C	J05-0710	H.T	'05/10/21							
D	J06-0064	H.T	'06/2/23	dr			type Product Customer Drawing			
E	J06-0372	H.T	'06/9/17	engr						
				chr						
				appd						
sheet index	revision sheet	E	1							Rev. E

SC-SFV03 JSA96144
form: A4

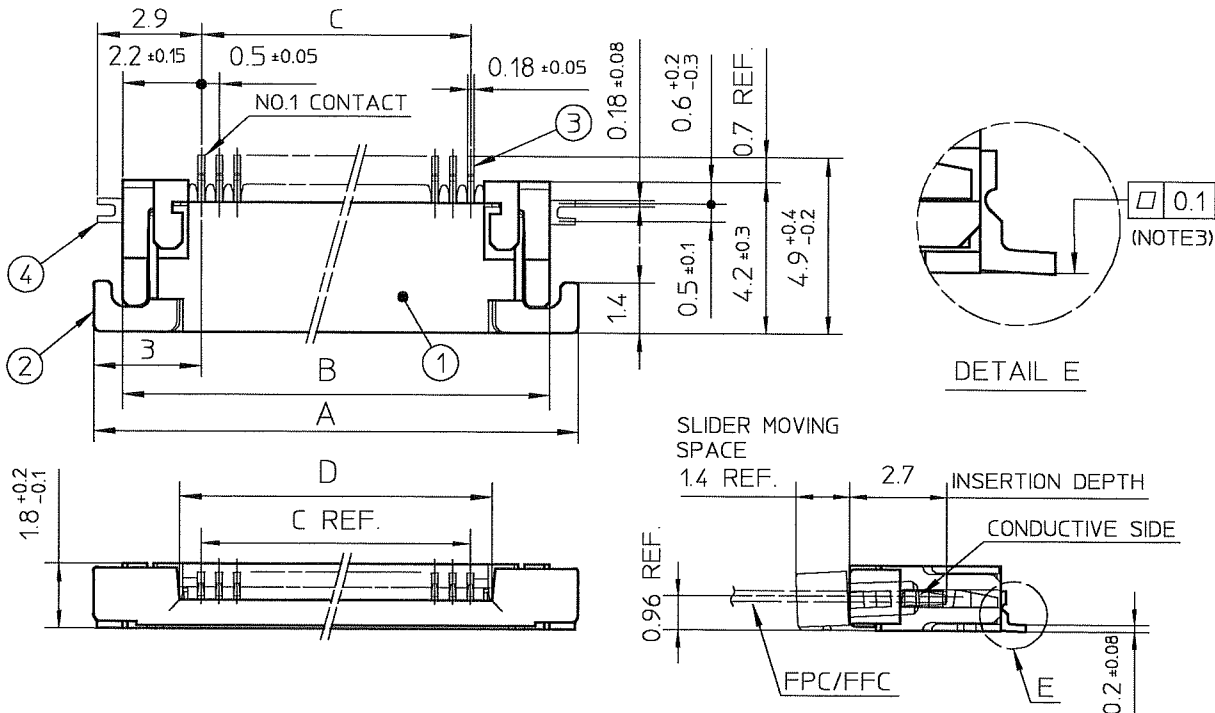
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2



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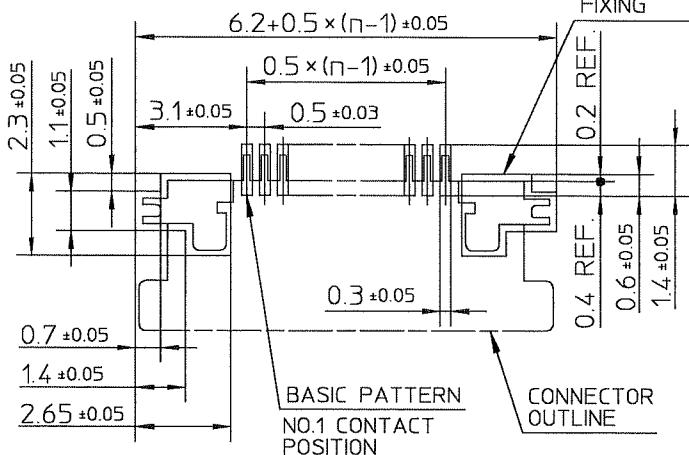
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PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	POLYAMIDE RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK
2	SLIDER	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BROWN
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : MATTE PURE TIN Ni UNDER PLATED (LEAD FREE)
4	MOUNTING PLATE		2	

RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE)PATTERN FOR
MOUNTING PLATE
FIXING

n : NO. OF CONTACTS



NOTES

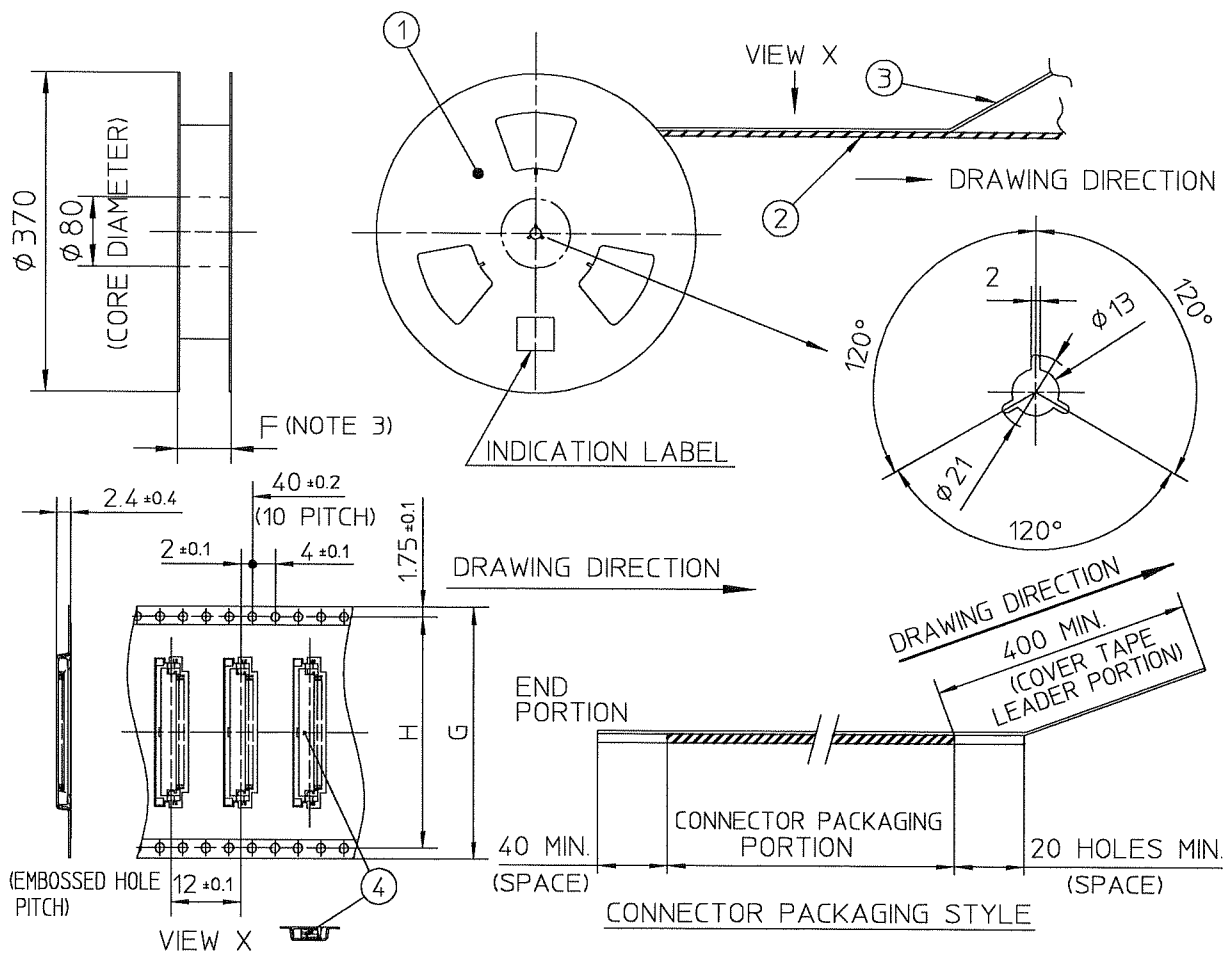
- 1.THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND COPS WITH AUTOMATIC MOUNTING (SMT).
- 2.THIS PRODUCT IS UPPER CONTACT TYPE CONNECTOR.
- 3.FLATNESS OF CONTACT TERMINAL AND MOUNTING PLATE MUST BE WITHIN TOLERANCE IN E PORTION DETAILED DRAWING.
- 4.THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND 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 ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection 	product family 58EF			
ltr	ecn no	dr	date	tolerances unless otherwise specified			title CONNECTOR USED FOR FPC/FFC WITH 0.5 mm CONTACT SPACING (Cat. No. : SFV__R-2ST__LF)			
A	J04-0462	H.T	'04/12/17	angles	linear	±0.2				
B	J05-0227	H.T	'05/4/14				dwg no sheet 1 of 1 size JSA 96146 A4			
C	J05-0710	H.T	'05/10/21							
D	J06-0064	H.T	'06/2/23	dr		9/7/06	type Product Customer Drawing			
E	J06-0372	H.T	'06/9/17	engr		9/7/06				
				chr		9/8/06	Rev. E			
				appd		9/11/06				
sheet index	revision	E								
	sheet	1								

SC-SFV03 JSA96144
form: A4

1

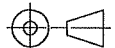
2



PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	CARDBOARD	1	COLOR : WHITE
2	PLASTIC (EMBOSS) TAPE	_____	A-PET	_____	COLOR : TRANSPARENCY
3	COVER	_____	POLYESTER	_____	COLOR : TRANSPARENCY
4	CONNECTOR	SFV__R-1ST__LF	SEE ATTACHED DWG.	3000	LOWER CONTACT TYPE

NOTES

1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC AND CYPES 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 (EMBOSS) TAPE AND REEL.
3. F DIMENSION IS PORTION OF THE CORE.

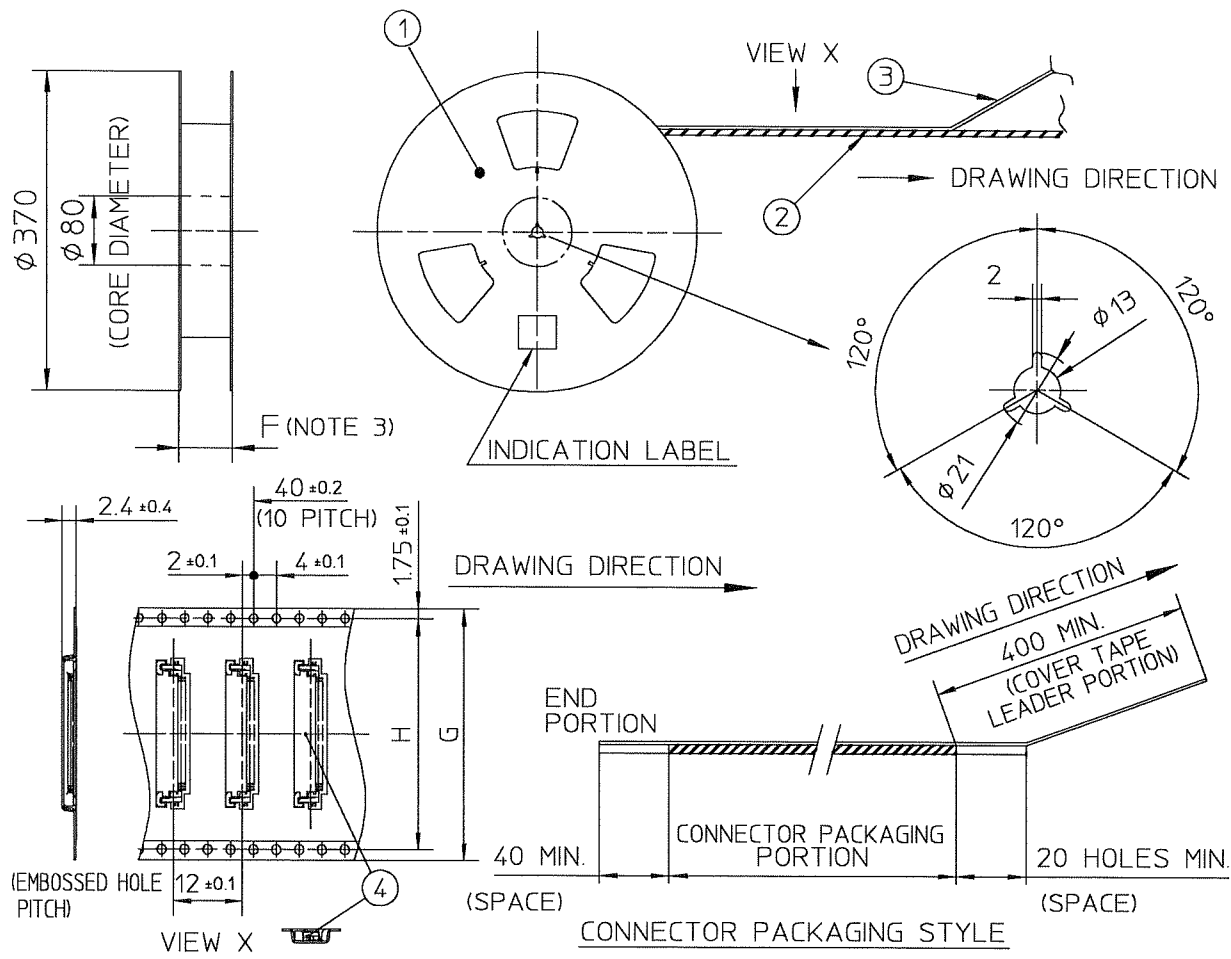
mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family 58EF												
ltr	ecn no	dr	date	tolerances unless otherwise specified							title PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-1STE1LF)											
A	J04-0462	H.T	'04/12/17	angles	linear	±5																
B	J05-0227	H.T	'05/4/14																			
C	J06-0372	H.T	'06/9/7	±5°						scale	X											
				dr	H. J																	

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form: A4



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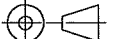
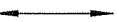
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PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	CARDBOARD	1	COLOR : WHITE
2	PLASTIC (EMBOSS) TAPE	_____	A-PET	_____	COLOR : TRANSPARENCY
3	COVER	_____	POLYESTER	_____	COLOR : TRANSPARENCY
4	CONNECTOR	SFV_R-2ST_LF	SEE ATTACHED DWG.	3000	UPPER CONTACT TYPE

NOTES

1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC AND CYPES 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 (EMBOSS) TAPE AND REEL.
3. F DIMENSION IS PORTION OF THE CORE.

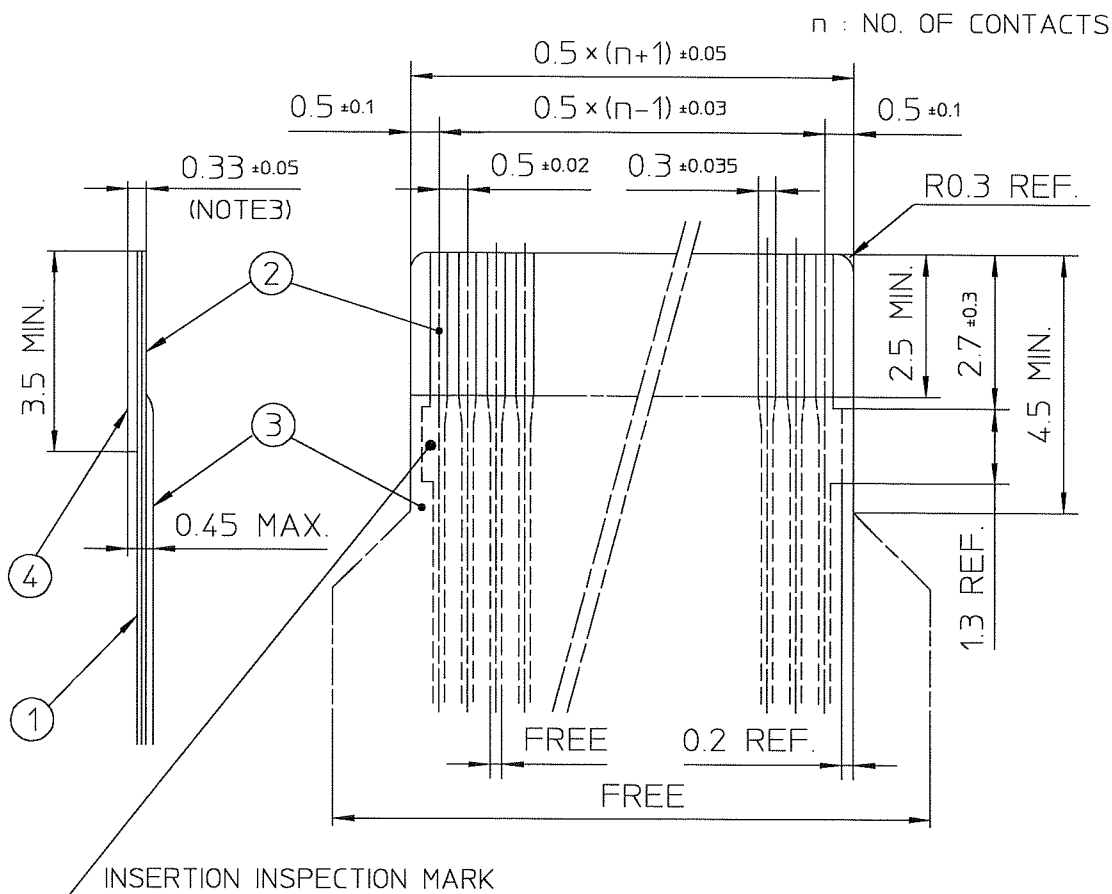
mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family 58EF										
ltr	ecn no	dr	date	tolerances unless otherwise specified						title PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-2STE1LF)										
A	J04-0462	H.T	'04/12/17	angles	linear	±5														scale X
B	J05-0227	H.T	'05/4/14																	
C	J06-0372	H.T	'06/9/7	±5°																
				dr	<i>H. Shoukri</i>		<i>9/7/06</i>			dwg no					sheet 1 of 1					size
				engr	<i>H. Shoukri</i>		<i>9/7/06</i>			JSA 96149					A4					
				chr	<i>K. Shoukri</i>		<i>9/8/06</i>													
				appd	<i>S. G. Shoukri</i>		<i>9/11/06</i>													
sheet index		revision sheet		C	1													Rev. C		

SC-SFV03 JSA96144
form: A4

1

2

RECOMMENDED CABLE (FPC)



PT. NO.	PARTS NAME	MATERIAL	THICKNESS (μm)
1	BASE FILM	POLYIMIDE OR POLYESTER OR EQUAL	25
2	CONDUCTOR	COPPER FOIL (PLATING : SOLDER 1μm MIN.)	35
3	OVERLAY	POLYIMIDE OR POLYESTER OR EQUAL	—
4	SUPPORTING TAPE	POLYESTER OR POLYIMIDE OR EQUAL	188

NOTES

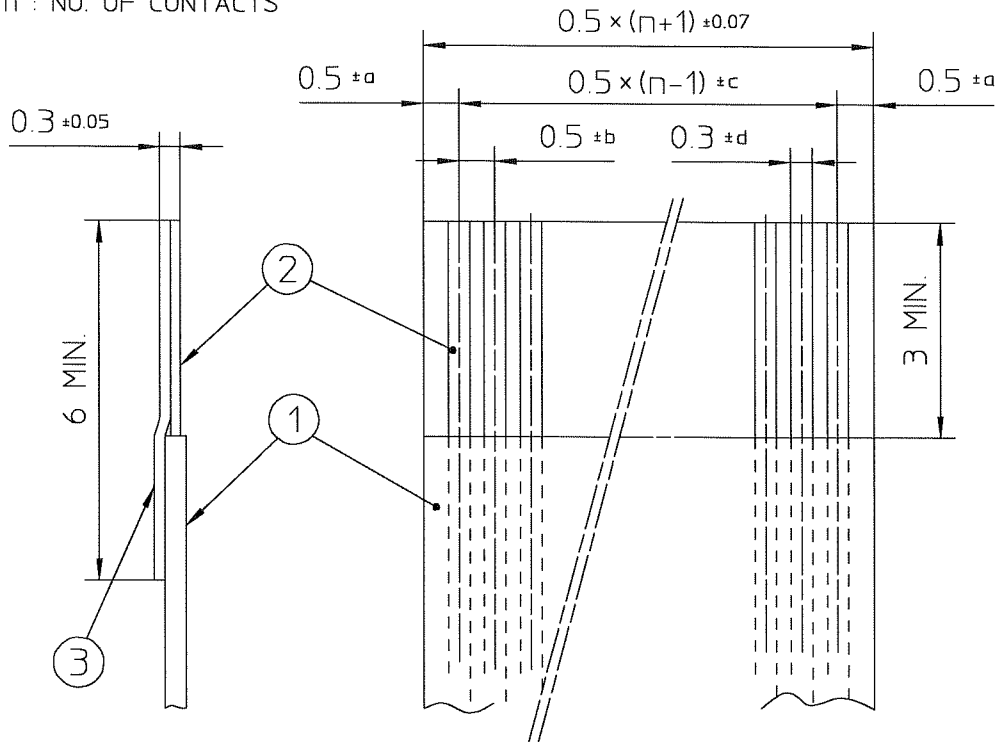
1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. TOTAL THICKNESS LIMIT OF EACH MATERIAL (INCLUDING ADHESIVE AGENT) IS SPECIFIED.

mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection		product family 58EF			
litr ecn no dr date				tolerances unless otherwise specified						title RECOMMENDED CABLE (Cat. No. : SFV__R-1/2ST__)			
1 — M.H. '94/12/8				angles linear									
AA J03-0196 H.T. '03/5/1										dwg no sheet 1 of 1 size JSA 92456 A4			
AB J06-0372 H.T. '06/9/17													
				dr 11/10/06 9/9/06						type Product Customer Drawing			
				engr 11/10/06 9/7/06									
				chr R. Shouji 9/8/06									
				appd S. Andama 9/11/06									
sheet index		revision sheet		AB 1								Rev. AB	

SC-SFV01 JSA92450
form: A4

RECOMMENDED CABLE (FFC)

n : NO. OF CONTACTS



KIND OF FFC (NOTE3)	DIMENSIONAL TOLERANCE			
	a	b	c	d
1	±0.07	±0.04	±0.05	±0.02
2	±0.1	±0.03	±0.03	±0.025

PT. NO.	PARTS NAME	MATERIAL	NOTE
1	INSULATOR	FLAME RESISTING POLYESTER OR EQUAL	
2	CONDUCTOR	COPPER FOIL:THICKNESS 35 OR 50 μm	PLATING : TIN OR SOLDER 1 μm MIN.
3	SUPPORTING TAPE	FLAME RESISTING POLYESTER OR EQUAL	

NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. EITHER KIND1 OR KIND2 OF FFC CAN ACCEPT DIMENSIONAL TOLERANCE a,b,c AND d.

mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection ⊕		product family 58EF			
ltr	ecn no	dr	date	tolerances unless otherwise specified						title RECOMMENDED CABLE (Cat. No. : SFV__R-1/2ST__)			
1		S.I	'93/9/9	angles		linear		scale X		dwg no JSA 92457 sheet 1 of 1 size A4 type Product Customer Drawing			
2		M.H	'94/12/8										
AA	J03-0196	H.T	'03/5/1										
AB	J06-0372	H.T	'06/9/7										
AC	J06-0499	H.T	'06/11/27	dr			11/27/06	engr			11/27/06		
				chr			11/27/06	appd			11/27/06		
sheet index				revision sheet		AC 1							

SC-SFV01 JSA92450
form: A4