List of "SFV__R-1/2STE9HLF" customer document

LIST

DOCUMENT NO.	LIST
	DOCUMENT LIST
10117320(Sheet1)	CAT.NO.TABLE FOR 0.5mm CONTACT SPACING CONNECTOR (SFV__R-1/2ST_HLF)
10117320(Sheet2)	CONNECTOR USED FOR FPC/FFC WITH 0.5mm CONTACT SPACING (SFV__R-1ST_HLF)
10117320(Sheet3)	CONNECTOR USED FOR FPC/FFC WITH 0.5mm CONTACT SPACING (SFV__R-2ST_HLF)
10117320(Sheet4)	CAT.NO.TABLE FOR PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-1/2STE9HLF)
10117320(Sheet5)	PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-1STE9HLF)
10117320(Sheet6)	PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-2STE9HLF)
10117320(Sheet7)	RECOMMENDED CABLE (FPC) (SFV__R-1/2ST__LF)
10117320(Sheet8)	RECOMMENDED CABLE (FFC) (SFV__R-1/2ST__LF)
10117320(Sheet9)	
GS-12-645	SPEC.
BJM-SFV101	HANDLING PROCEDURES

mat'l. code				surface ISO 1302 ✓	tolerance ISO 406 / ISO 1101	projection ⊕ ◁	product family 58EF	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm	title 0.5mm SPACING FPC CONNECTOR DOCUMENT LIST (Cat. No. : SFV__R-1/2STE9HLF)	
A	J11-0042	S.W	2011-2-10	angles	linear			
						scale ✗		
				dr	S.Nitale 2011-2-10		dwg no	sheet 1 of 9	size
				engr	S.Nitale 2011-2-10	FCI	10117320	A4
				chr	Y.Kameda 2011-2-10			
				appd	Manu Feb 10'11		type Product Customer Drawing	
sheet index	revision sheet	A 1	A 2	A 3	A 4	A 5	A 6	A 7	A 8	A 9					Rev. A

form: A4

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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__HLF	7.5	5.9	1.5	2.7
5	SFV5R-1/2ST__HLF	8.0	6.4	2.0	3.2
6	SFV6R-1/2ST__HLF	8.5	6.9	2.5	3.7
7	SFV7R-1/2ST__HLF	9.0	7.4	3.0	4.2
8	SFV8R-1/2ST__HLF	9.5	7.9	3.5	4.7
9	SFV9R-1/2ST__HLF	10.0	8.4	4.0	5.2
10	SFV10R-1/2ST__HLF	10.5	8.9	4.5	5.7
11	SFV11R-1/2ST__HLF	11.0	9.4	5.0	6.2
12	SFV12R-1/2ST__HLF	11.5	9.9	5.5	6.7
13	SFV13R-1/2ST__HLF	12.0	10.4	6.0	7.2
14	SFV14R-1/2ST__HLF	12.5	10.9	6.5	7.7
15	SFV15R-1/2ST__HLF	13.0	11.4	7.0	8.2
16	SFV16R-1/2ST__HLF	13.5	11.9	7.5	8.7
17	SFV17R-1/2ST__HLF	14.0	12.4	8.0	9.2
18	SFV18R-1/2ST__HLF	14.5	12.9	8.5	9.7
19	SFV19R-1/2ST__HLF	15.0	13.4	9.0	10.2
20	SFV20R-1/2ST__HLF	15.5	13.9	9.5	10.7
21	SFV21R-1/2ST__HLF	16.0	14.4	10.0	11.2
22	SFV22R-1/2ST__HLF	16.5	14.9	10.5	11.7
23	SFV23R-1/2ST__HLF	17.0	15.4	11.0	12.2
24	SFV24R-1/2ST__HLF	17.5	15.9	11.5	12.7
25	SFV25R-1/2ST__HLF	18.0	16.4	12.0	13.2
26	SFV26R-1/2ST__HLF	18.5	16.9	12.5	13.7
27	SFV27R-1/2ST__HLF	19.0	17.4	13.0	14.2
28	SFV28R-1/2ST__HLF	19.5	17.9	13.5	14.7
29	SFV29R-1/2ST__HLF	20.0	18.4	14.0	15.2
30	SFV30R-1/2ST__HLF	20.5	18.9	14.5	15.7
31	SFV31R-1/2ST__HLF	21.0	19.4	15.0	16.2
32	SFV32R-1/2ST__HLF	21.5	19.9	15.5	16.7
33	SFV33R-1/2ST__HLF	22.0	20.4	16.0	17.2
34	SFV34R-1/2ST__HLF	22.5	20.9	16.5	17.7
35	SFV35R-1/2ST__HLF	23.0	21.4	17.0	18.2
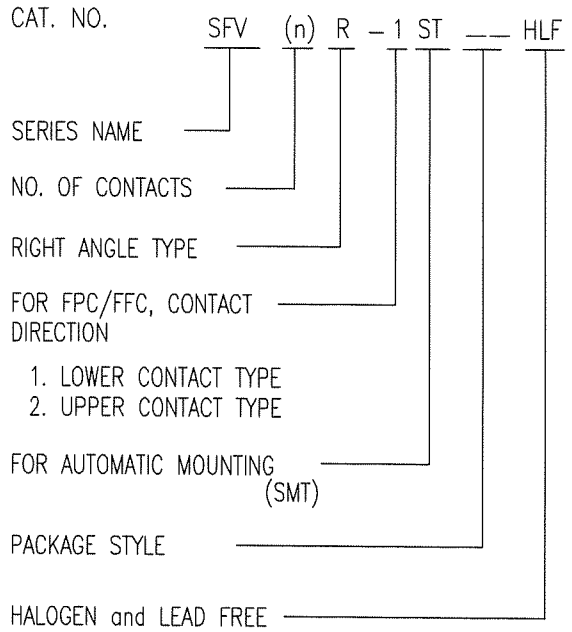
CAT. NO.

SFV (n) R - 1 ST __ HLF

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

HALOGEN and 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.

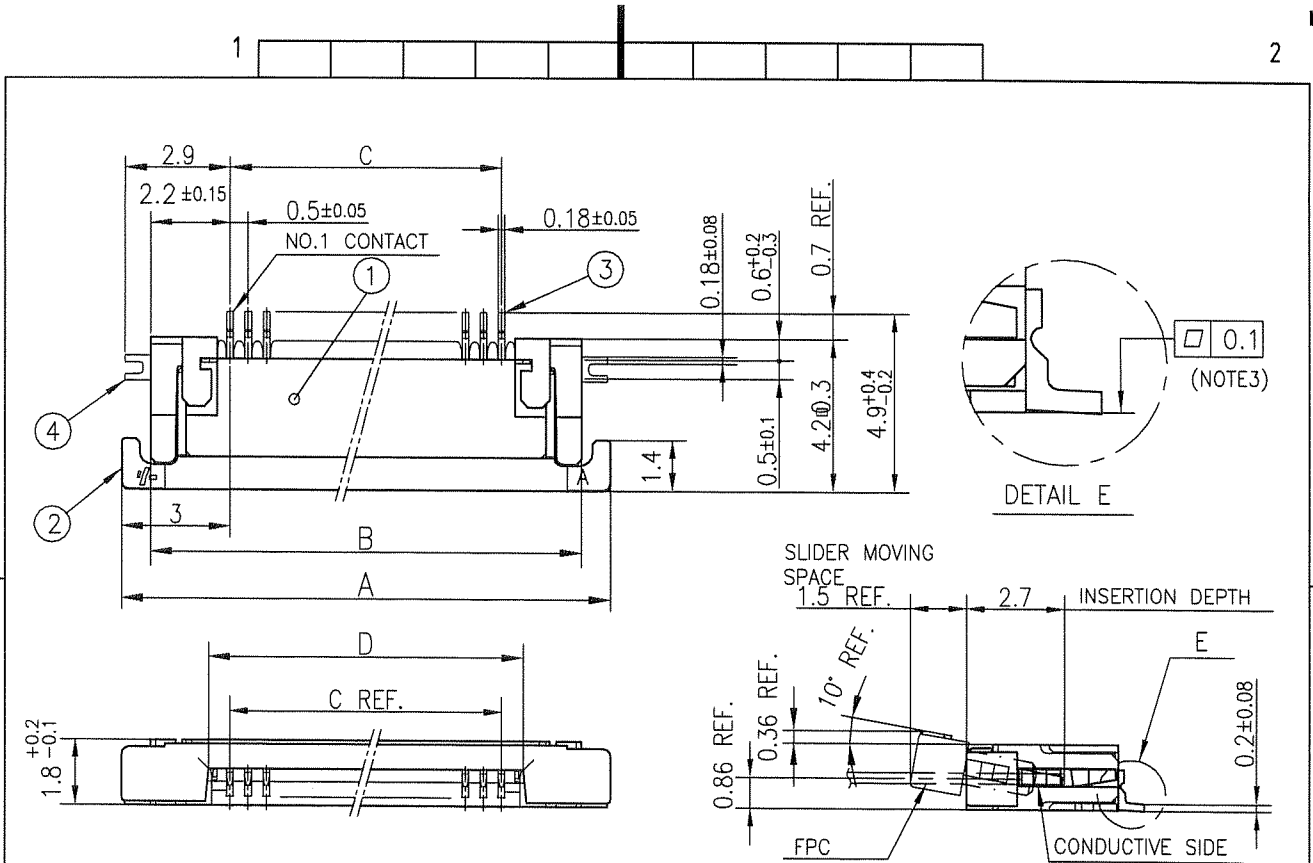| mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family	58EF	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified			title		
A				angles	linear	mm	CAT. NO. TABLE FOR 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-1/2ST__HLF)		
						scale X			

dr	S. Mitahl	2011-2-10
engr	S. Mitahl	2011-2-10
chr	Y. Kamaki	2011-2-10
appd	MCinn	Feb 10 11

dwg no 10117320   sheet 2 of 9   size A4

type Product Customer Drawing

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sheet index / revision sheet

form: A4

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DETAIL E

NO.1 CONTACT

SLIDER MOVING SPACE
1.5 REF.
2.7 INSERTION DEPTH
10° REF.
FPC
CONDUCTIVE SIDE

PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	13~35pin : LCP RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK (HALOGEN FREE)
		4~12pin : POLYAMIDE RESIN GLASS REINFORCED (UL94V-0)		
2	SLIDER	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK (HALOGEN FREE)
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : MATTE PURE TIN Ni UNDER PLATED (LEAD FREE)
4	MOUNTING PLATE		2	

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE)

$6.2+0.5 \times (n-1) \pm 0.05$
$0.5 \times (n-1) \pm 0.05$
3.1 ± 0.05
0.5 ± 0.03

PATTERN FOR MOUNTING PLATE FIXING

0.2 REF.
0.4 REF.
0.6 ± 0.05
1.4 ± 0.05

2.3 ± 0.05
1.1 ± 0.05
0.5 ± 0.05

0.3 ± 0.05

0.7 ± 0.05
1.4 ± 0.05
2.65 ± 0.05

BASIC PATTERN
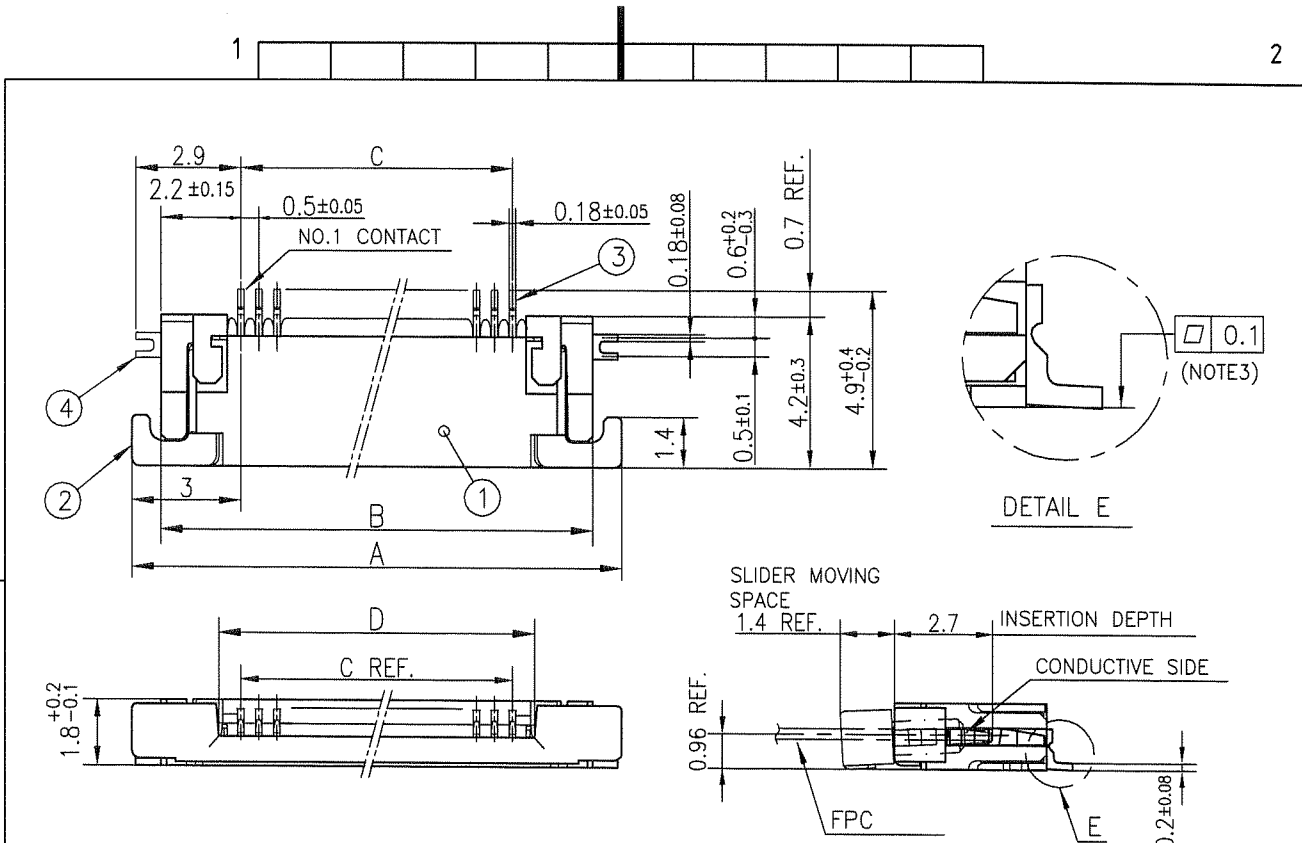NO.1 CONTACT POSITION

CONNECTOR OUTLINE

NOTES
1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPES WITH AUTOMATIC MOUNTING (SMT).
2. THIS PRODUCT IS LOWER 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

CODE
JP

ltr	ecn no	dr	date
A			

tolerances unless otherwise specified

angles | linear   ±0.2   mm

title
CONNECTOR USED FOR FPC
WITH 0.5 mm CONTACT SPACING
(Cat No. : SFV__R-1ST__HLF)

scale   X

dr	S. Nitobe	2011-2-10
engr	S. Nitobe	2011-2-10
chr	Y. Kamada	2011-2-10
appd		Feb 10/11

dwg no   sheet 3 of 9   size
10117320   A4

type   Product Customer Drawing

sheet index | revision sheet

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DETAIL E

□ 0.1
(NOTE3)

SLIDER MOVING SPACE
1.4 REF.

2.7   INSERTION DEPTH

CONDUCTIVE SIDE

0.96 REF.

FPC

E

0.2±0.08

C REF.

D

1.8 +0.2 −0.1

NO.1 CONTACT

PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	13~35pin : LCP RESIN GLASS REINFORCED (UL94V−0) 4~12pin : POLYAMIDE RESIN GLASS REINFORCED (UL94V−0)	1	COLOR : BLACK (HALOGEN FREE)
2	SLIDER	PPS RESIN GLASS REINFORCED (UL94V−0)	1	COLOR : BLACK (HALOGEN FREE)
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : MATTE PURE TIN Ni UNDER PLATED (LEAD FREE)
4	MOUNTING PLATE		2	

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE)

PATTERN FOR MOUNTING PLATE FIXING

$6.2+0.5 \times (n-1) \pm 0.05$

$0.5 \times (n-1) \pm 0.05$

0.2 REF.

3.1±0.05

0.5±0.03

2.3±0.05

1.1±0.05

0.5±0.05

0.4 REF.

0.6±0.05

1.4±0.05

0.3±0.05

0.7±0.05

1.4±0.05

2.65±0.05

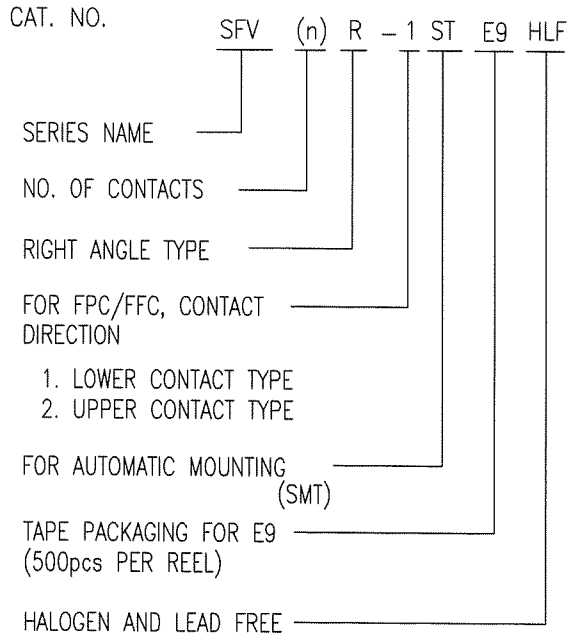BASIC PATTERN
NO.1 CONTACT POSITION

CONNECTOR OUTLINE

NOTES
1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPES 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.

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mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family	58EF	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified			title CONNECTOR USED FOR FPC WITH 0.5 mm CONTACT SPACING (Cat. No. : SFV__R−2ST__HLF)		
A				angles	linear	±0.2			
						mm			
				dr	S. Vitale	2011-2-10	scale	X	
				engr	S. Vitale	2011-2-10	dwg no	sheet 4 of 9	size
				chr	Y. Kamada	2011-2-10	10117320		A4
				appd	M.Ciotti	Feb/2011	type Product Customer Drawing		
sheet index	revision sheet								Rev. A

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CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO.	DIMENSIONS (NOTE3)		
		F MAX.	G ± 0.3	H ± 0.1
4	SFV4R-1/2STE9HLF	22.4	16	——
5	SFV5R-1/2STE9HLF	22.4	16	——
6	SFV6R-1/2STE9HLF	22.4	16	——
7	SFV7R-1/2STE9HLF	30.4	24	——
8	SFV8R-1/2STE9HLF	30.4	24	——
9	SFV9R-1/2STE9HLF	30.4	24	——
10	SFV10R-1/2STE9HLF	30.4	24	——
11	SFV11R-1/2STE9HLF	30.4	24	——
12	SFV12R-1/2STE9HLF	30.4	24	——
13	SFV13R-1/2STE9HLF	30.4	24	——
14	SFV14R-1/2STE9HLF	30.4	24	——
15	SFV15R-1/2STE9HLF	30.4	24	——
16	SFV16R-1/2STE9HLF	30.4	24	——
17	SFV17R-1/2STE9HLF	30.4	24	——
18	SFV18R-1/2STE9HLF	30.4	24	——
19	SFV19R-1/2STE9HLF	30.4	24	——
20	SFV20R-1/2STE9HLF	30.4	24	——
21	SFV21R-1/2STE9HLF	30.4	24	——
22	SFV22R-1/2STE9HLF	30.4	24	——
23	SFV23R-1/2STE9HLF	38.4	32	28.4
24	SFV24R-1/2STE9HLF	38.4	32	28.4
25	SFV25R-1/2STE9HLF	38.4	32	28.4
26	SFV26R-1/2STE9HLF	38.4	32	28.4
27	SFV27R-1/2STE9HLF	38.4	32	28.4
28	SFV28R-1/2STE9HLF	38.4	32	28.4
29	SFV29R-1/2STE9HLF	38.4	32	28.4
30	SFV30R-1/2STE9HLF	38.4	32	28.4
31	SFV31R-1/2STE9HLF	50.4	44	40.4
32	SFV32R-1/2STE9HLF	50.4	44	40.4
33	SFV33R-1/2STE9HLF	50.4	44	40.4
34	SFV34R-1/2STE9HLF	50.4	44	40.4
35	SFV35R-1/2STE9HLF	50.4	44	40.4

CAT. NO.   SFV (n) R – 1 ST E9 HLF

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)

TAPE PACKAGING FOR E9 (500pcs PER REEL)
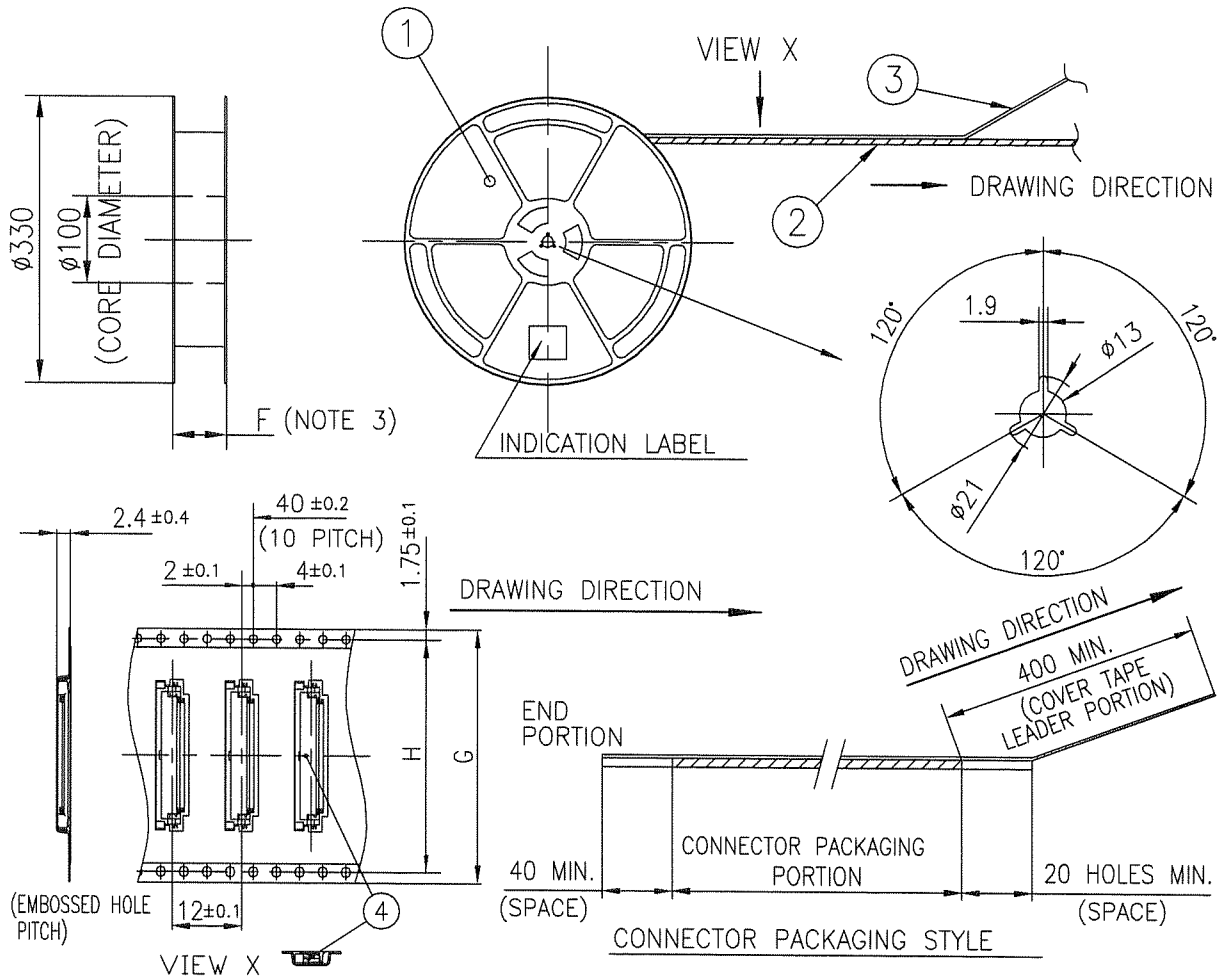
HALOGEN AND LEAD FREE

NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPES WITH AUTOMATIC MOUNTING (SMT).

2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.

3. SEE PART DRAWINGS FOR DIMENSIONS F~H.

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family	58EF	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified			title		
A				angles	linear	mm	CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-1/2STE9HLF)		
						scale X			
				dr	S. Nithula 2011-2-10		dwg no	sheet 5 of 9	size
				engr	S. Nithula 2011-2-10	FCI	10117320		A4
				chr	Y. Kaneda 2011-2-10				
				appd	MCnn Feb10'11		type Product Customer Drawing		
sheet index	revision sheet								Rev. A

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TOLERANCES
UNLESS OTHERWISE SPECIFIED : ±5, ANGLE ±5°

① VIEW X ③

DRAWING DIRECTION

φ330 φ100 (CORE DIAMETER)

F (NOTE 3)

②

120° 1.9 120°
φ13
φ21
120°

INDICATION LABEL

2.4 ±0.4 40 ±0.2 (10 PITCH) 1.75 ±0.1
2 ±0.1 4 ±0.1

DRAWING DIRECTION

DRAWING DIRECTION
400 MIN.
(COVER TAPE LEADER PORTION)

H G

END PORTION

(EMBOSSED HOLE PITCH) 12 ±0.1 ④

40 MIN. (SPACE)

CONNECTOR PACKAGING PORTION

20 HOLES MIN. (SPACE)

VIEW X

CONNECTOR PACKAGING STYLE

PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	———	POLYSTYRENE	1	COLOR : BLACK
2	PLASTIC (EMBOSS) TAPE	———	A–PET	——	COLOR : TRANSPARENCY (CLEAR)
3	COVER	———	POLYESTER	——	COLOR : TRANSPARENCY (CLEAR)
4	CONNECTOR	SFV__R-1ST__HLF	SEE ATTACHED DWG.	500	LOWER CONTACT TYPE

NOTES
1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC 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 (EMBOSS) TAPE AND REEL.

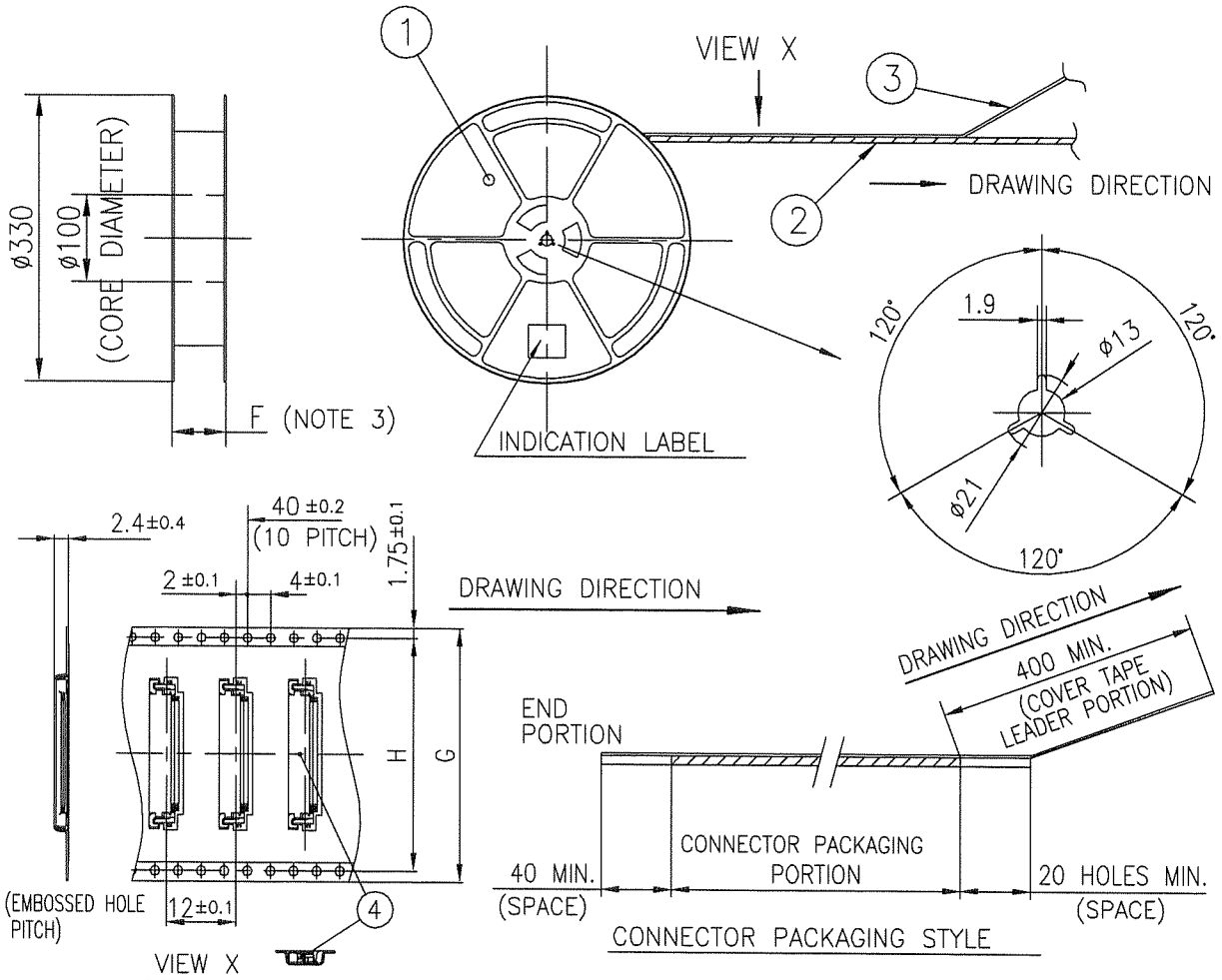3. F DIMENSION IS PORTION OF THE CORE.

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family 58EF	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified			title PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-1STE9HLF)	
A				angles	linear	mm		
						scale X		
				dr	S.Witnlu 2011-2-10		dwg no	sheet 6 of 9	size
				engr	S.Witnlu 2011-2-10		10117320	A4
				chr	Y.Kameda 2011-2-10			
				appd	MAm Feb16'11		type Product Customer Drawing	
sheet index	revision sheet							Rev. A

form: A4

TOLERANCES
UNLESS OTHERWISE SPECIFIED : ±5, ANGLE ±5°

VIEW X

① ③ ②

DRAWING DIRECTION

INDICATION LABEL

Ø330
Ø100
(CORE DIAMETER)

F (NOTE 3)

1.9
Ø13
120° 120°
Ø21
120°

2.4±0.4

40 ±0.2
(10 PITCH)

1.75±0.1

2 ±0.1
4 ±0.1

DRAWING DIRECTION

DRAWING DIRECTION
400 MIN.
(COVER TAPE LEADER PORTION)

H
G

END PORTION

CONNECTOR PACKAGING PORTION

40 MIN.
(SPACE)

20 HOLES MIN.
(SPACE)

(EMBOSSED HOLE PITCH) 12±0.1 ④

VIEW X

CONNECTOR PACKAGING STYLE

PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	———	POLYSTYRENE	1	COLOR : BLACK
2	PLASTIC (EMBOSS) TAPE	———	A-PET	——	COLOR : TRANSPARENCY (CLEAR)
3	COVER	———	POLYESTER	——	COLOR : TRANSPARENCY (CLEAR)
4	CONNECTOR	SFV__R-2ST__HLF	SEE ATTACHED DWG.	500	LOWER CONTACT TYPE

NOTES

1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC 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 (EMBOSS) TAPE AND REEL.

3. F DIMENSION IS PORTION OF THE CORE.

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mat'l. code				surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection ⊕ ◁	product family 58EF		CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm	title PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-2STE9HLF)		
A				angles	linear				
						scale X			
				dr	S. Nitala	2011-2-10		dwg no	sheet 7 of 9	size
				engr	S. Nitala	2011-2-10	FCI	10117320		A4
				chr	Y. Kaneda	2011-2-10				
				appd		Feb/10/11		type Product Customer Drawing		
sheet index	revision sheet								Rev. A

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RECOMMENDED CABLE (FPC)

n : NO. OF CONTACTS

0.5X(n+1) ±0.05

0.5X(n−1) ±0.03

0.5±0.1

0.5±0.1

0.33±0.05
(NOTE3)

0.5±0.02 0.3±0.035

R0.3 REF.

3.5 MIN.

2.5 MIN.

2.7±0.3

4.5 MIN.

1.3 REF.

0.45 MAX.

② ③ ④ ①

FREE 0.2 REF.

FREE

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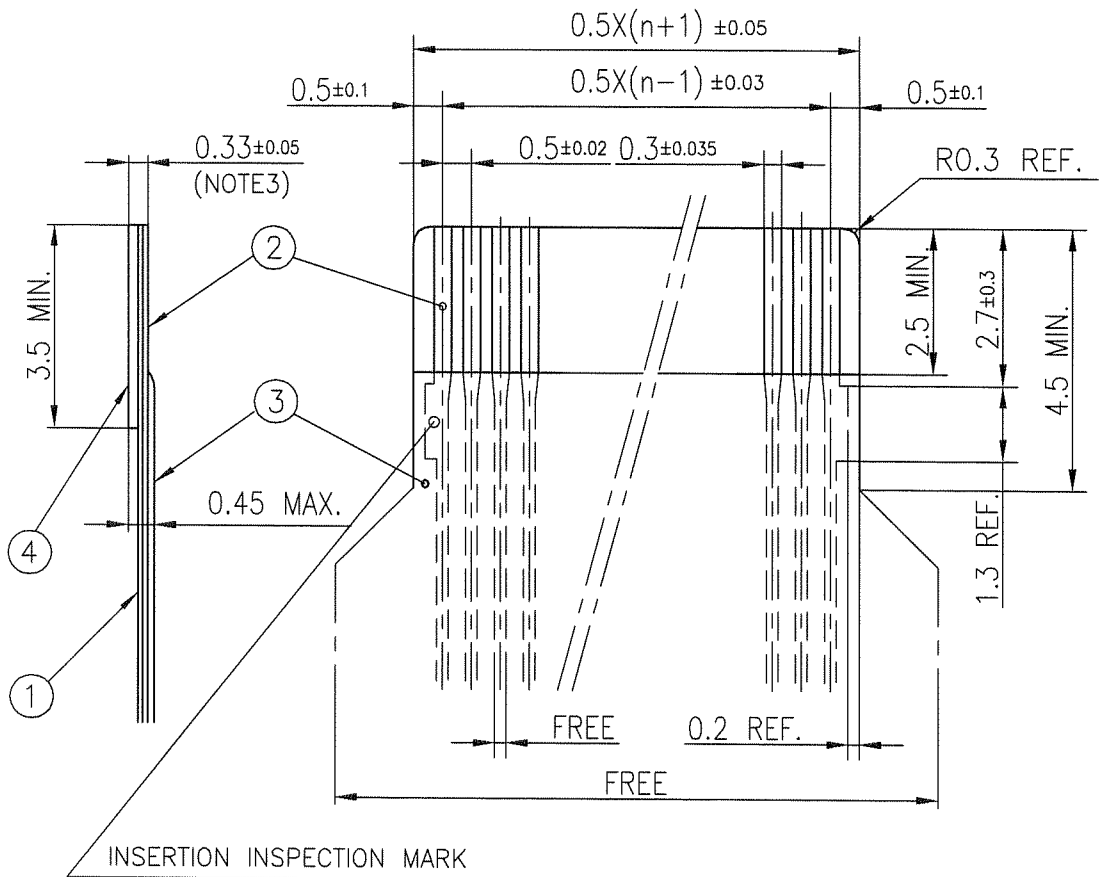
PT. NO.	PARTS NAME	MATERIAL	THICKNESS (um)
1	BASE FILM	POLYIMIDE OR POLYESTER OR EQUAL	25
2	CONDUCTOR	COPPER FOIL(PLATING : TIN or SOLDER 1um MIN.)	35
3	OVERLAY	POLYIMIDE OR POLYESTER OR EQUAL	———
4	SUPPORTING TAPE	POLYESTER OR POLYIMIDE OR EQUAL	188

NOTES

1. NO BURR AT EACH PORTION.

2. NO PEELING IN COMMON USE.

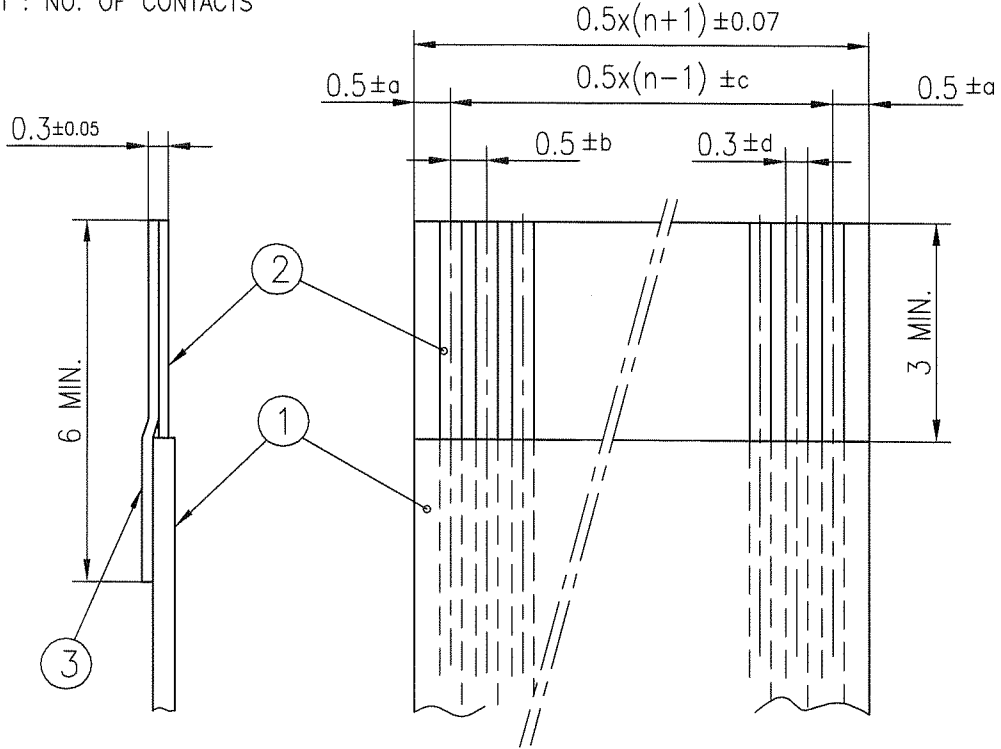3. TOTAL THICKNESS LIMIT OF EACH MATERIAL (INCLUDING ADHESIVE AGENT)
   IS SPECIFIED.

mat'l. code				surface	tolerance	projection	product family	58EF	CODE
				ISO 1302	ISO 406 / ISO 1101				JP
ltr	ecn no	dr	date	tolerances unless otherwise specified			title		
A				angles	linear	mm	RECOMMENDED CABLE (Cat. No. : SFV__R-1/2ST__)		
						scale X			
				dr	S. Nitala 2011-2-10		dwg no	sheet 8 of 9	size
				engr	S. Nitala 2011-2-10		10112793		A4
				chr	Y. Kuroda 2011-2-10	FCI			
				appd	M. Cesta Feb2011		type Product Customer Drawing		
sheet index	revision sheet								Rev. A

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RECOMMENDED CABLE (FFC)

n : NO. OF CONTACTS

0.5x(n+1) ±0.07

0.5x(n−1) ±c

0.5 ±a   0.5 ±a

0.3±0.05   0.5 ±b   0.3 ±d

6 MIN.   3 MIN.

② ① ③

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 50um	PLATING : TIN OR SOLDER 1um 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	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified	title RECOMMENDED CABLE (Cat. No. : SFV__R-1/2ST__LF)
A				angles	linear	
				dr	S. Nitoda	2011-2-10	dwg no	sheet 9 of 9	size
				engr	S. Nitoda	2011-2-10	10117320	A4
				chr	Y. Kameda	2011-2-10	
				appd	M. Anss	Feb 10 '11	type	Product Customer Drawing
sheet index	revision sheet					Rev. A

mm

scale X

form: A4