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

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

mat'l. code

surface ISO 1302 ✓ tolerance ISO 406 ISO 1101

tolerances unless otherwise specified

angles linear

projection

mm

scale X

product family 58EF CODE JP

title 0.5mm SPACING FPC CONNECTOR DOCUMENT LIST (Cat. No. : SFV__R-1/2STE9HLF)

dwg no 10117320 sheet 1 of 9 size A4

type Product Customer Drawing

ltr	ecn no	dr	date
A	J11-0042	S.W	2011-2-10

dr	S.Watabe	2011-2-10
engr	S.Watabe	2011-2-10
chr	Y.Kameda	2011-2-10
appd	M.Ono	Feb.10'11

sheet index	1	2	3	4	5	6	7	8	9											Rev.
revision	A	A	A	A	A	A	A	A	A											A
sheet	1	2	3	4	5	6	7	8	9											

Copyright FCI.
FCIconnect.com

form: A4

PDM: Rev:A STATUS:Released Printed: Feb 18, 2011

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.

FCIconnect.com
Copyright FCI.

ltr	ecn no	dr	date
A			

mat'l. code

surface ISO 1302

tolerance ISO 406 ISO 1101

tolerances unless otherwise specified

angles | linear

projection

mm

scale X

dr	S. Mitchell	2011-2-10
engr	S. Mitchell	2011-2-10
chr	Y. Kawaguchi	2011-2-10
appd	M. Cinto	Feb 10 11

product family 58EF

CODE JP

title
CAT. NO. TABLE FOR 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-1/2ST__HLF)

dwg no 10117320

sheet 2 of 9

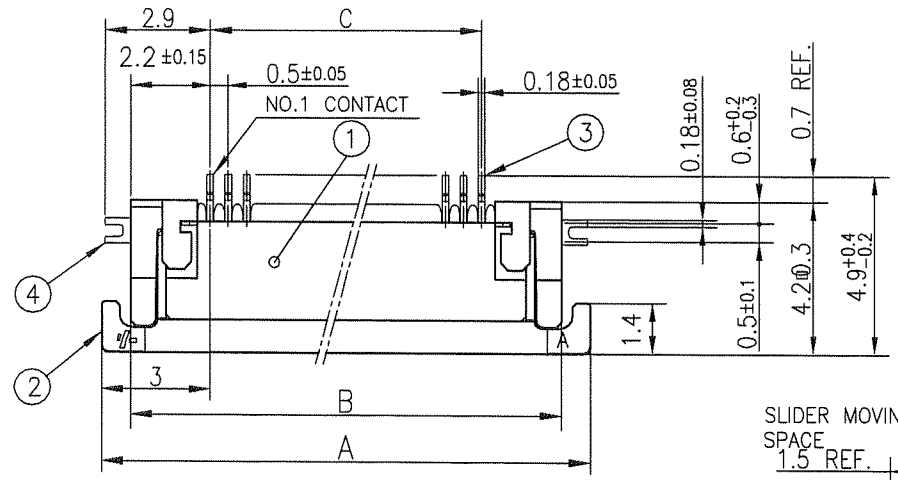
size A4

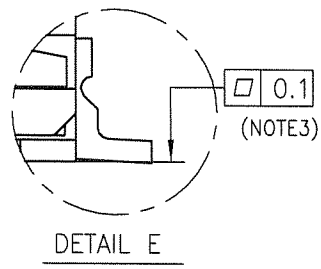
type Product Customer Drawing

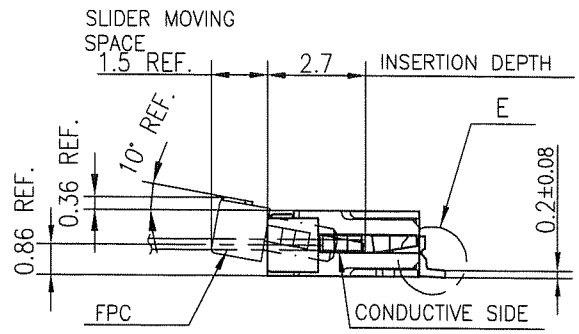
sheet index | revision sheet

Rev. A

form: A4



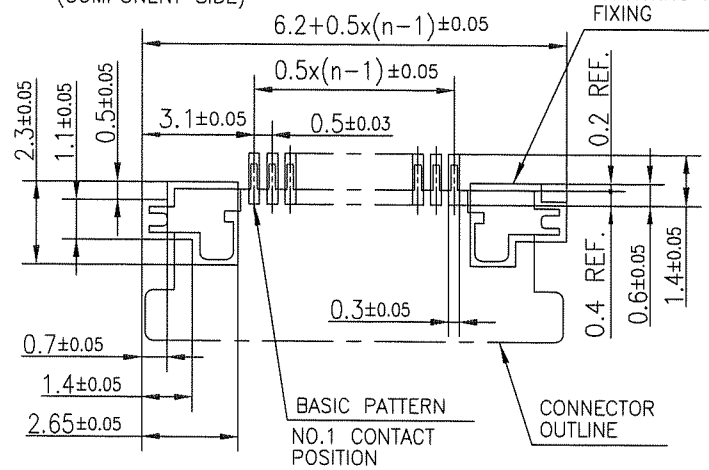




PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	13~35pin : LCP RESIN GLASS REINFORCED (UL94V-0) 4~12pin : POLYAMIDE RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK (HALOGEN FREE)
2	SLIDER	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK (HALOGEN FREE)
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : MATTE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

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE)



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.

ltr	ecn no	dr	date
A			

mat'l. code

surface ISO 1302 ✓ tolerance ISO 406 ISO 1101

tolerances unless otherwise specified

angles | linear ±0.2

projection

mm

scale X

dr	S. Watanabe	2011-2-10
engr	S. Watanabe	2011-2-10
chr	Y. Kamada	2011-2-10
appd	M. Ueno	Feb 10/11

product family 58EF CODE JP

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

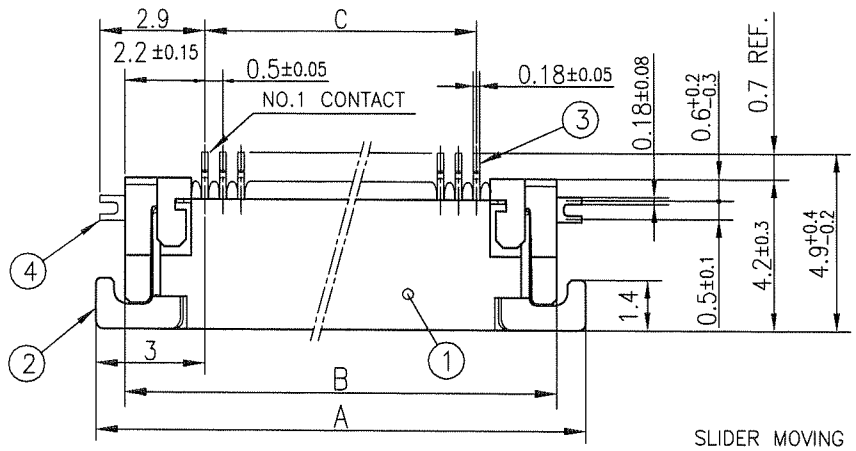
dwg no 10117320 sheet 3 of 9 size A4

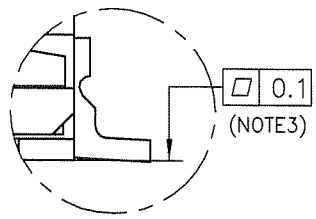
type Product Customer Drawing

sheet index | revision sheet Rev. A

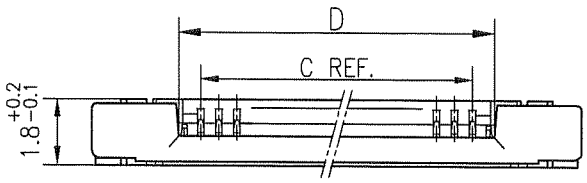
form: A4

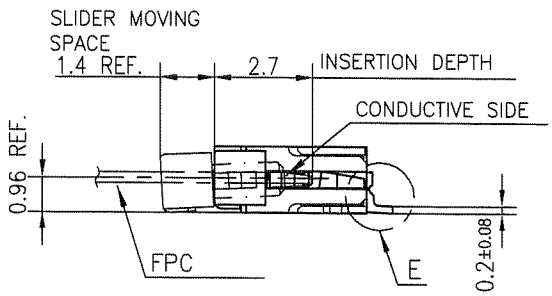
Copyright FCI.
FCIconnect.com





DETAIL E

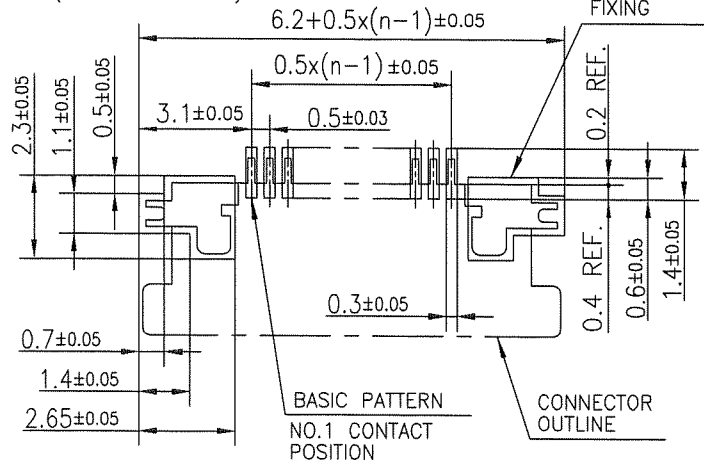




PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	13~35pin : LCP RESIN GLASS REINFORCED (UL94V-0) 4~12pin : POLYAMIDE RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK (HALOGEN FREE)
2	SLIDER	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK (HALOGEN FREE)
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : MATTE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

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE)



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.

| | | |

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

- SFV — SERIES NAME
- (n) — NO. OF CONTACTS
- R — RIGHT ANGLE TYPE
- 1 — FOR FPC/FFC, CONTACT DIRECTION
  1. LOWER CONTACT TYPE
  2. UPPER CONTACT TYPE
- ST — FOR AUTOMATIC MOUNTING (SMT)
- E9 — TAPE PACKAGING FOR E9 (500pcs PER REEL)
- HLF — 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.

FCIconnect.com

Copyright FCI.

mat'l. code	surface ISO 1302	tolerance ISO 406 ISO 1101	projection
ltr A / ecn no / dr / date	tolerances unless otherwise specified: angles / linear		mm
	dr: S. Nishida 2011-2-10		scale X
	engr: S. Nishida 2011-2-10		
	chr: Y. Kameda 2011-2-10		
	appd: M. Kuno Feb 10 11		

product family: 58EF — CODE JP

title: CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-1/2STE9HLF)

dwg no 10117320 — sheet 5 of 9 — size A4

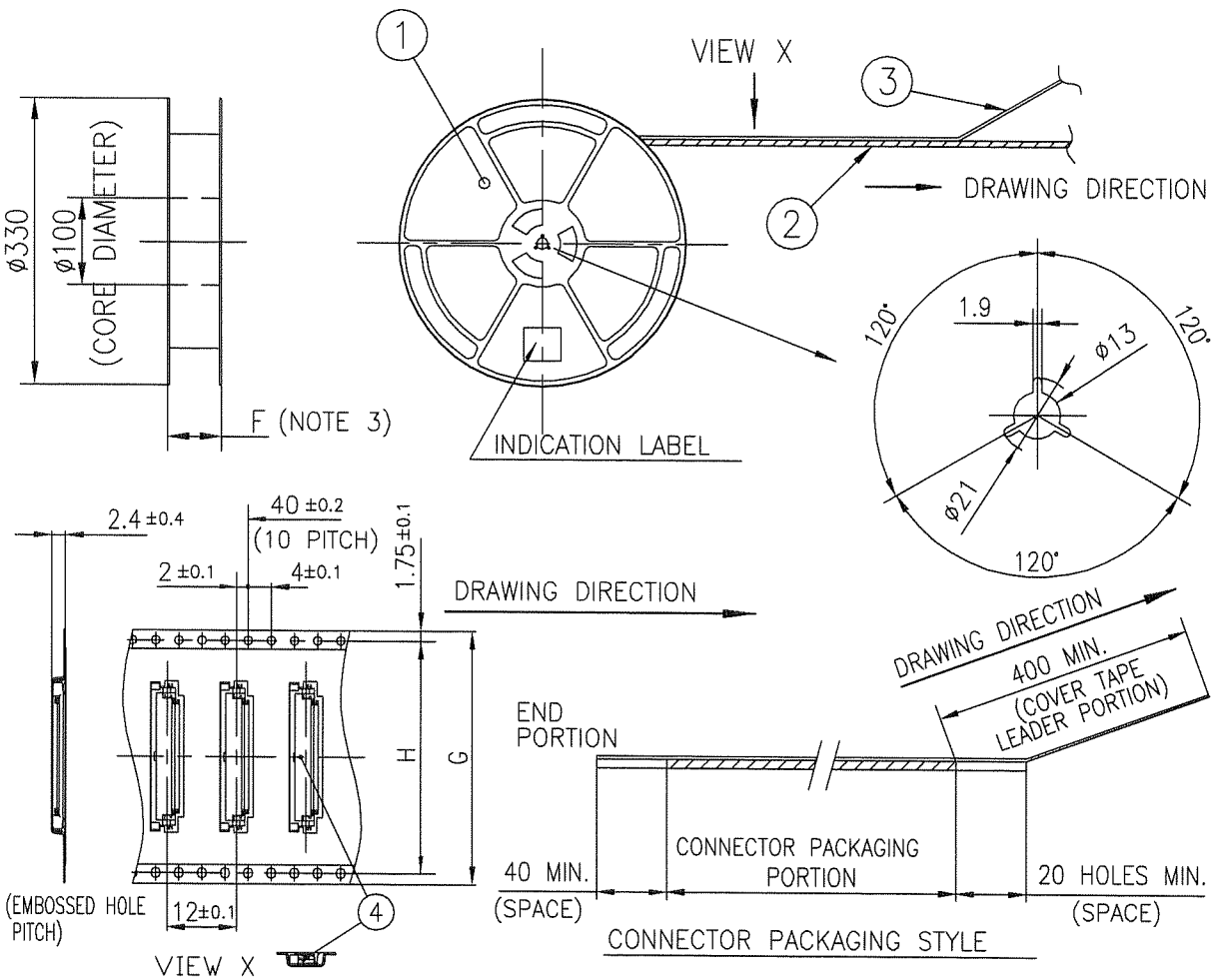
type Product Customer Drawing

sheet index — revision sheet — Rev. A

form: A4

PDM: Rev:A STATUS:Released Printed: Feb 18, 2011

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



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.

ltr	ecn no	dr	date
A			

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

dr	S. Mitchell	2011-2-10
engr	S. Mitchell	2011-2-10
chr	Y. Ramedu	2011-2-10
appd	M. Mitchell	Feb 10 11

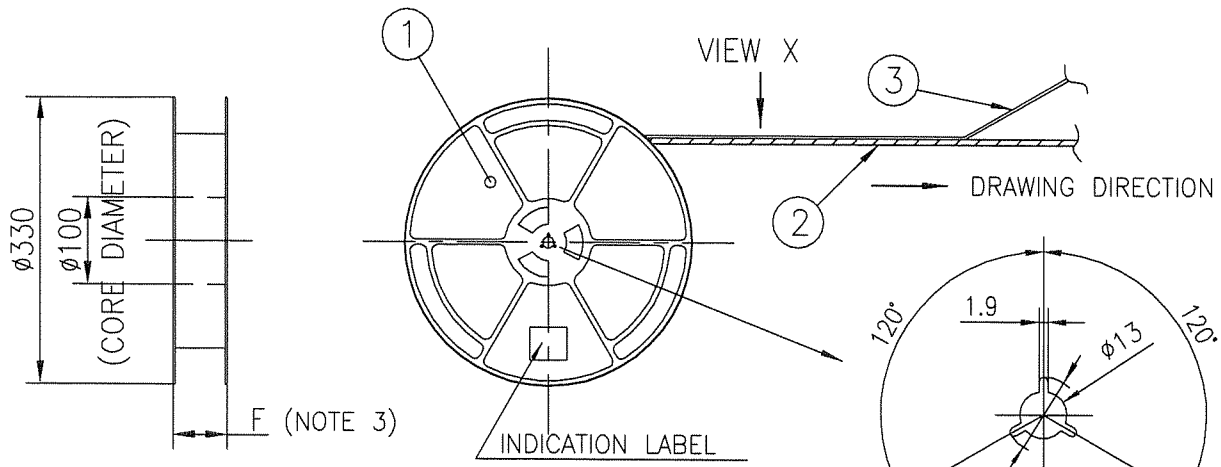
product family 58EF
CODE JP
title PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-1STE9HLF)
dwg no 10117320
sheet 6 of 9
size A4
type Product Customer Drawing
Rev. A

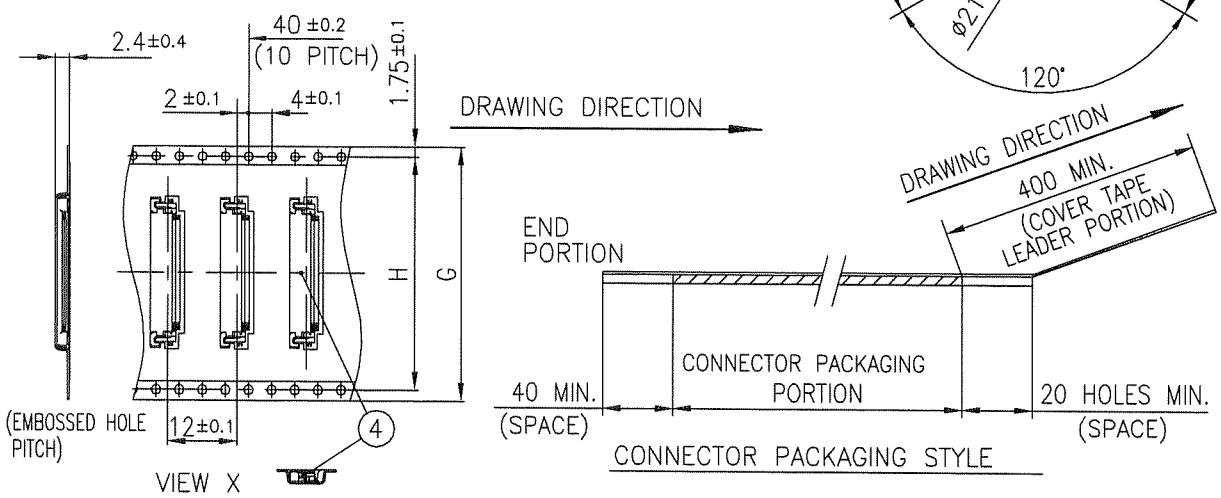
sheet index | revision sheet

Copyright FCI.
FCIconnect.com

form: A4

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





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.

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

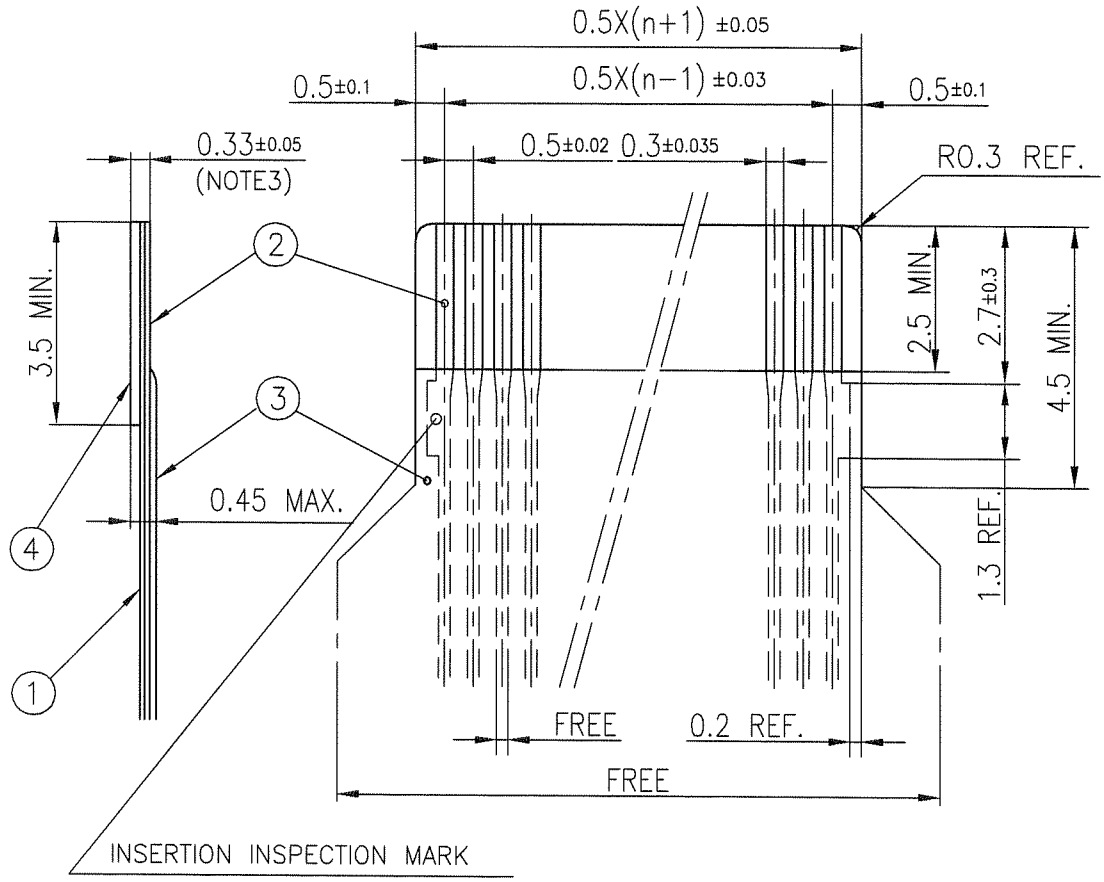
form: A4

Copyright FCI.
FCIconnect.com

PDM: Rev:A STATUS:Released Printed: Feb 18, 2011

RECOMMENDED CABLE (FPC)

n : NO. OF CONTACTS



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 ISO 1302	tolerance ISO 406 ISO 1101	projection
ltr A / ecn no / dr / date	tolerances unless otherwise specified	angles / linear	mm
	dr S. Watabe 2011-2-10		scale X
	engr S. Watabe 2011-2-10		
	chr Y. Kawada 2011-2-10		
	appd M Cantu Feb/10/11		

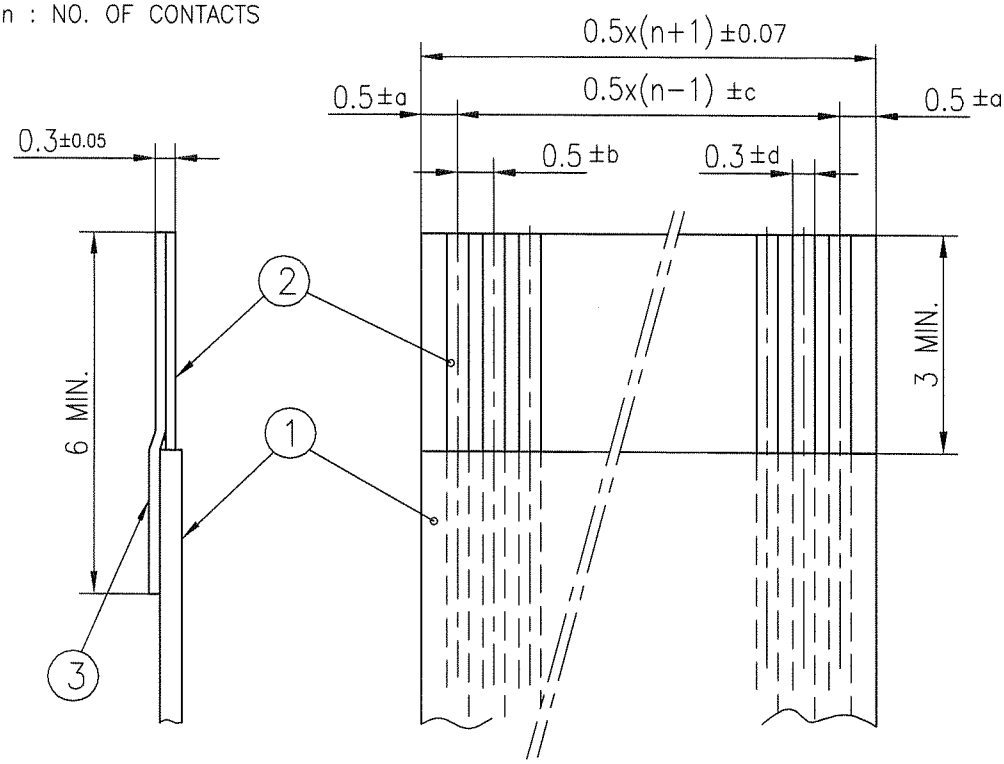
product family 58EF	CODE JP
title: RECOMMENDED CABLE (Cat. No. : SFV__R-1/2ST__)	
dwg no 10112793	sheet 8 of 9
size A4	
type Product Customer Drawing	
sheet index / revision sheet	Rev. A

form: A4

Copyright FCI.
FCIconnect.com
PDM: Rev:A STATUS:Released Printed: Feb 18, 2011

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 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			
A				angles / linear		mm	title: RECOMMENDED CABLE (Cat. No. : SFV__R-1/2ST__LF)
						scale X	
				dr S. Watanabe	2011-2-10	FCI	dwg no 10117320 / sheet 9 of 9 / size A4
				engr S. Watanabe	2011-2-10		
				chr Y. Kawada	2011-2-10		type Product Customer Drawing
				appd M Curtis	Feb/2011		
sheet index	revision sheet						Rev. A

form: A4

Copyright FCI.
FCIconnect.com

PDM: Rev:A STATUS:Released Printed: Feb 18, 2011