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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		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		dwg no 10117320 sheet 1 of 9 size A4			
										type Product Customer Drawing			
sheet index	revision sheet	A	A	A	A	A	A	A	A	A			
		1	2	3	4	5	6	7	8	9			
													Rev. A

form: A4

1

2

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)

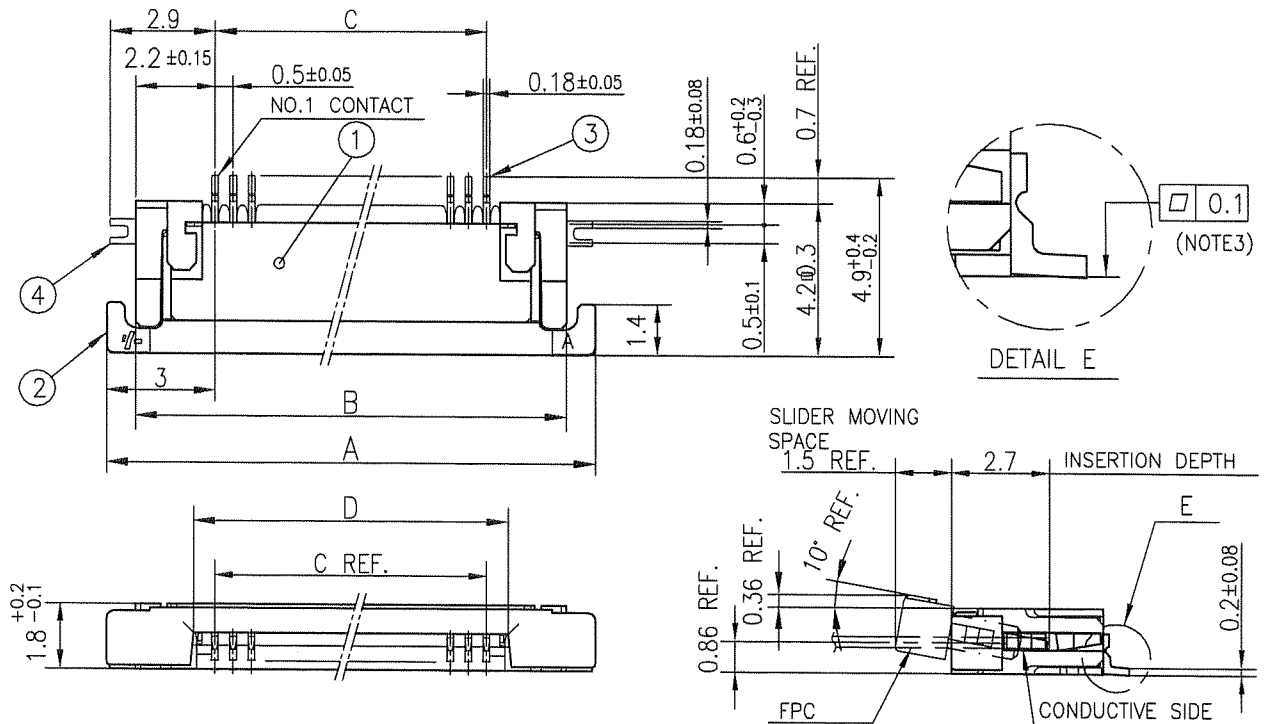
PACKAGE STYLE

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.

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		dwg no 10117320 sheet 2 of 9 size A4			
				dr	S. Mitha 2011-2-10			type Product Customer Drawing			
			enrg	S. Mitha 2011-2-10							
			chr	Y. Zamalek 2011-2-10							
			appd	M. Mitha Feb 10/11							
sheet index		revision sheet									Rev. A

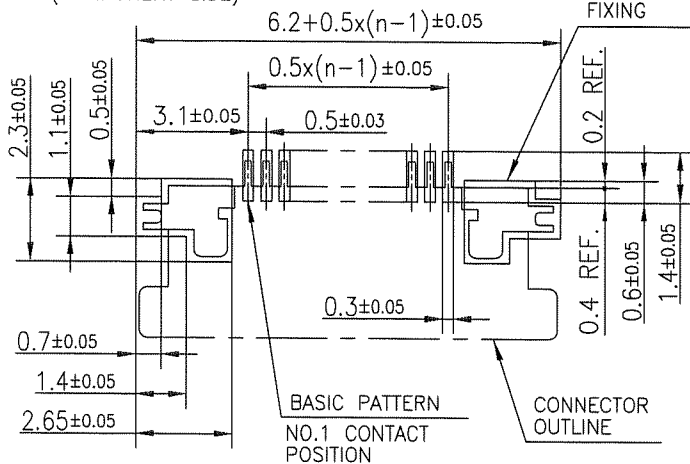


PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	13~35pin : LCP RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK (HALOGEN FREE)
		4~12pin : POLYAMIDE RESIN GLASS REINFORCED (UL94V-0)		
2	SLIDER	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK (HALOGEN FREE)
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : MATTE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

RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE)

PATTERN FOR
MOUNTING PLATE
FIXING

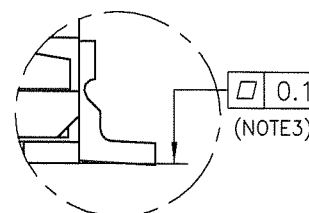
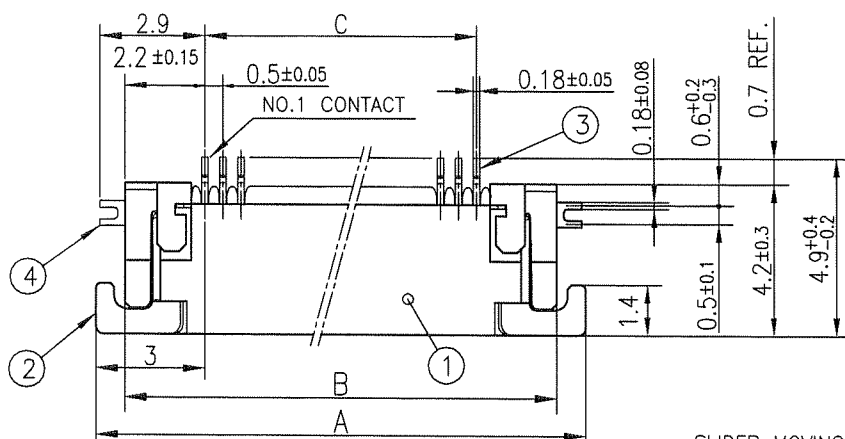
n : NO. OF CONTACTS



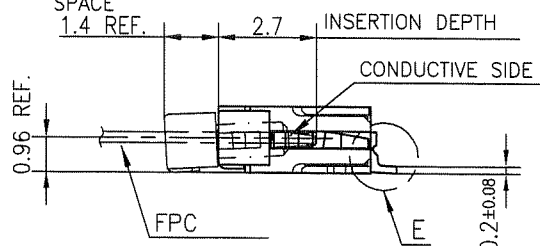
NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPS 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		title		CONNECTION USED FOR FPC WITH 0.5 mm CONTACT SPACING (Cat No. : SFV__R-1ST__HLF)	
A										dwg no		sheet 3 of 9	
				angles		linear		mm		10117320		A4	
				dr		engr		chr		appd		type Product Customer Drawing	
				S. W. H. L. F.		2011-2-10		2011-2-10		2011-2-10		Rev. A	
sheet index				revision sheet									

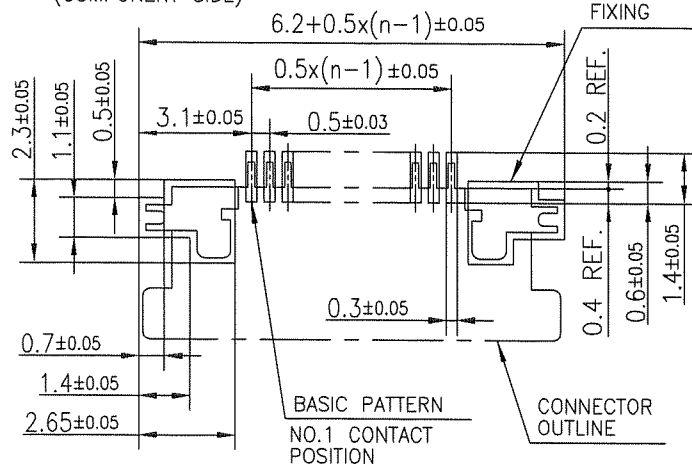


DETAIL E

SLIDER MOVING SPACE
1.4 REF.

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)PATTERN FOR
MOUNTING PLATE
FIXING

NOTES

- 1.THIS PRODUCT IS THE CONNECTOR USED FOR FPC 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		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified				mm		title CONNECTOR USED FOR FPC WITH 0.5 mm CONTACT SPACING (Cat. No. : SFV__R-2ST__HLF)			
A				angles linear				scale X		dwg no 10117320			
				dr		2011-2-10				sheet 4 of 9		size	
				engr		2011-2-10							
				chr		2011-2-10							
				appd		Feb 10 2011							
sheet index		revision sheet								type Product Customer Drawing		Rev. A	

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

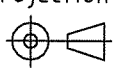
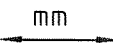
FOR AUTOMATIC MOUNTING (SMT)

TAPE PACKAGING FOR E9 (500pcs PER REEL)

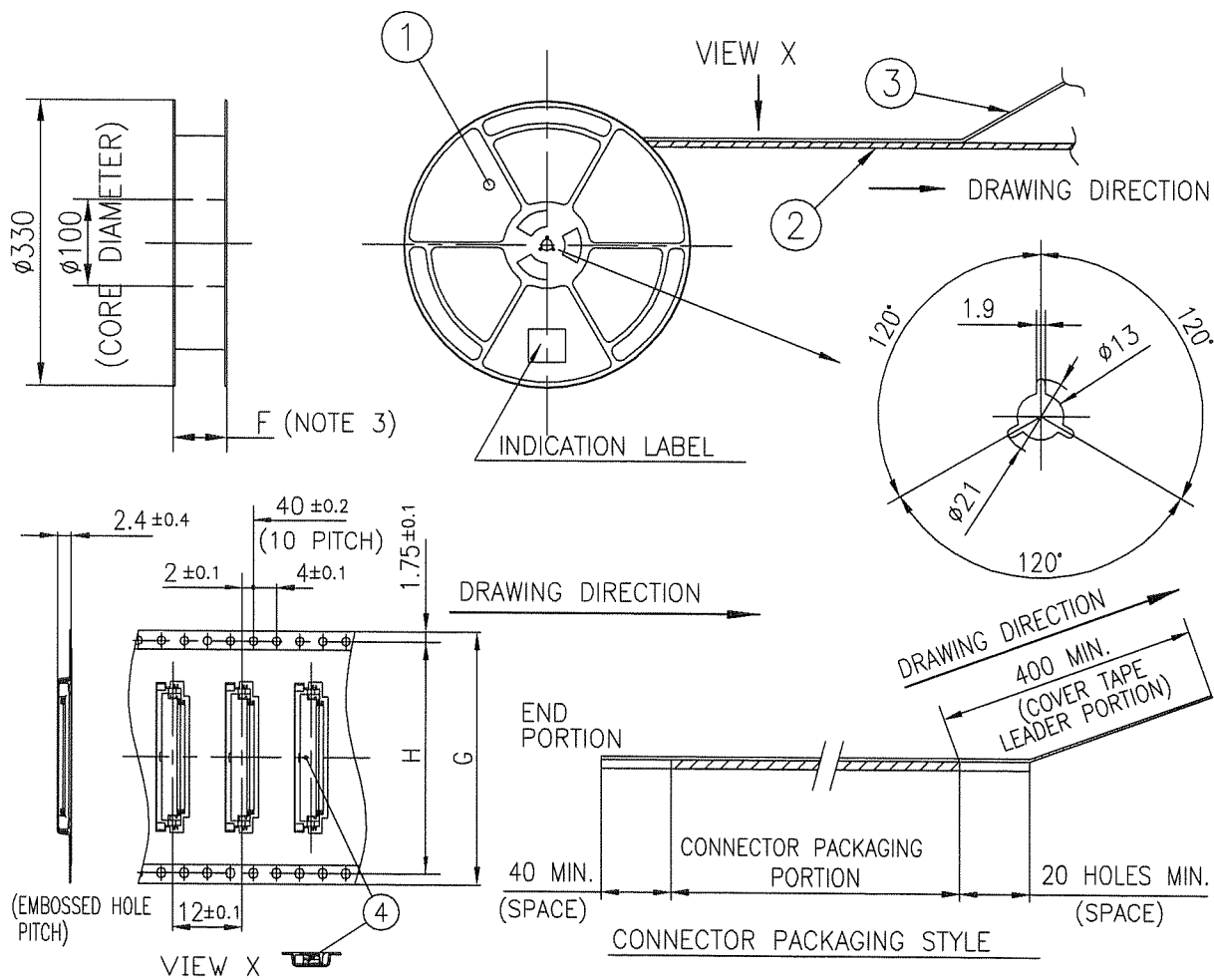
HALOGEN AND LEAD FREE

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 $\times$		dwg no		sheet 5 of 9	size
				dr	S. Nishida 2011-2-10			10117320			A4
				enr	S. Nishida 2011-2-10			type		Product	Customer Drawing
				chr	Y. Kameda 2011-2-10						
				appd	M. Nishida Feb 10 11						
sheet index	revision sheet										Rev. A

TOLERANCES
UNLESS OTHERWISE SPECIFIED : ± 5 , ANGLE $\pm 5^\circ$



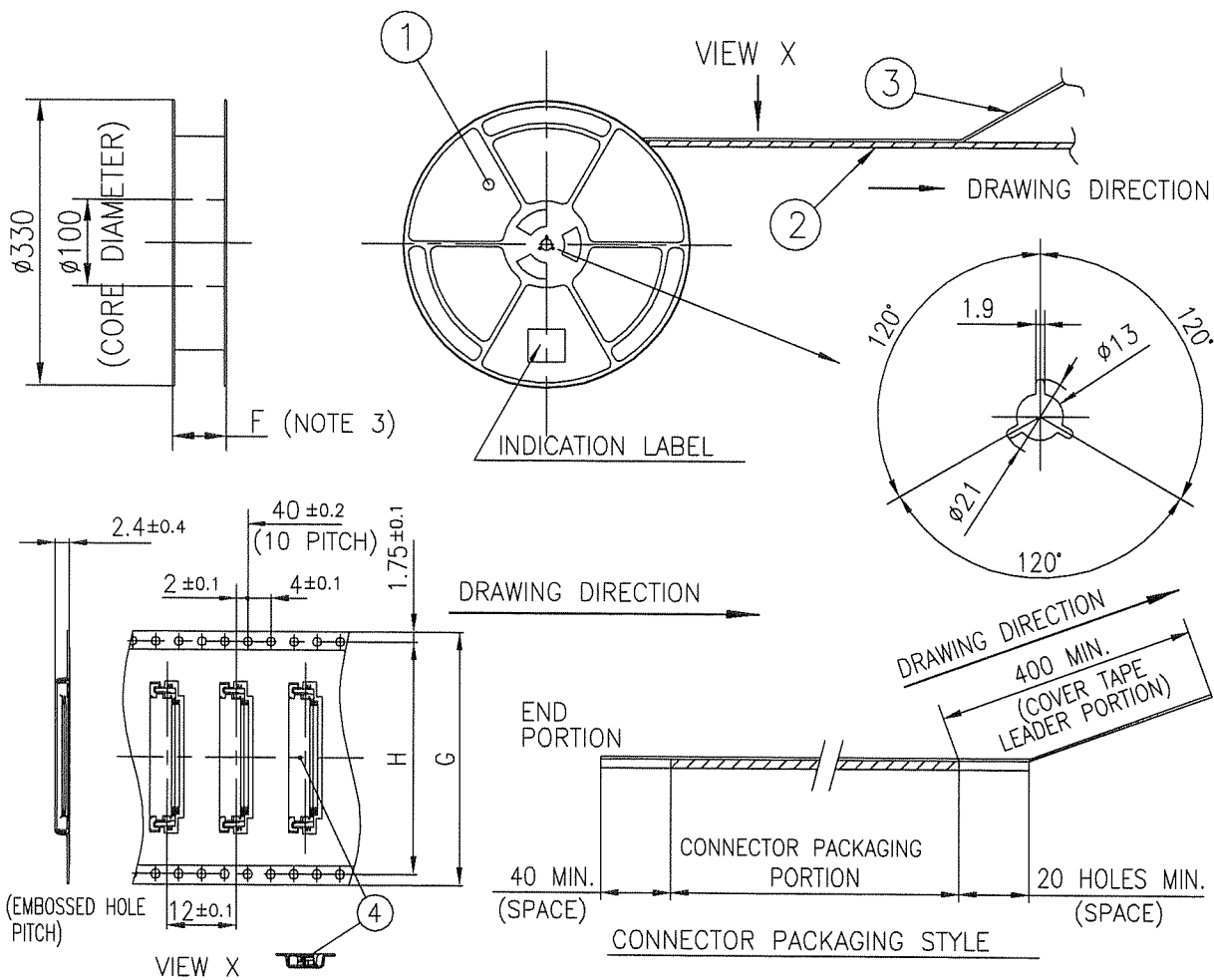
PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	POLYSTYRENE	1	COLOR : BLACK
2	PLASTIC (EMBOSS) TAPE	_____	A-PET	_____	COLOR : TRANSPARENCY (CLEAR)
3	COVER	_____	POLYESTER	_____	COLOR : TRANSPARENCY (CLEAR)
4	CONNECTOR	SFV__R-1ST__HLF	SEE ATTACHED DWG.	500	LOWER CONTACT TYPE

NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC AND COPS WITH AUTOMATIC MOUNTING (SMT).
- SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSS) TAPE AND REEL.
- 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		dwg no 10117320			
						scale $\times$		sheet 6 of 9			
				dr	engr	chr	appd	F		size A4	
								type		Product Customer Drawing	
sheet index	revision sheet										Rev. A

TOLERANCES
UNLESS OTHERWISE SPECIFIED : ± 5 , ANGLE $\pm 5^\circ$



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

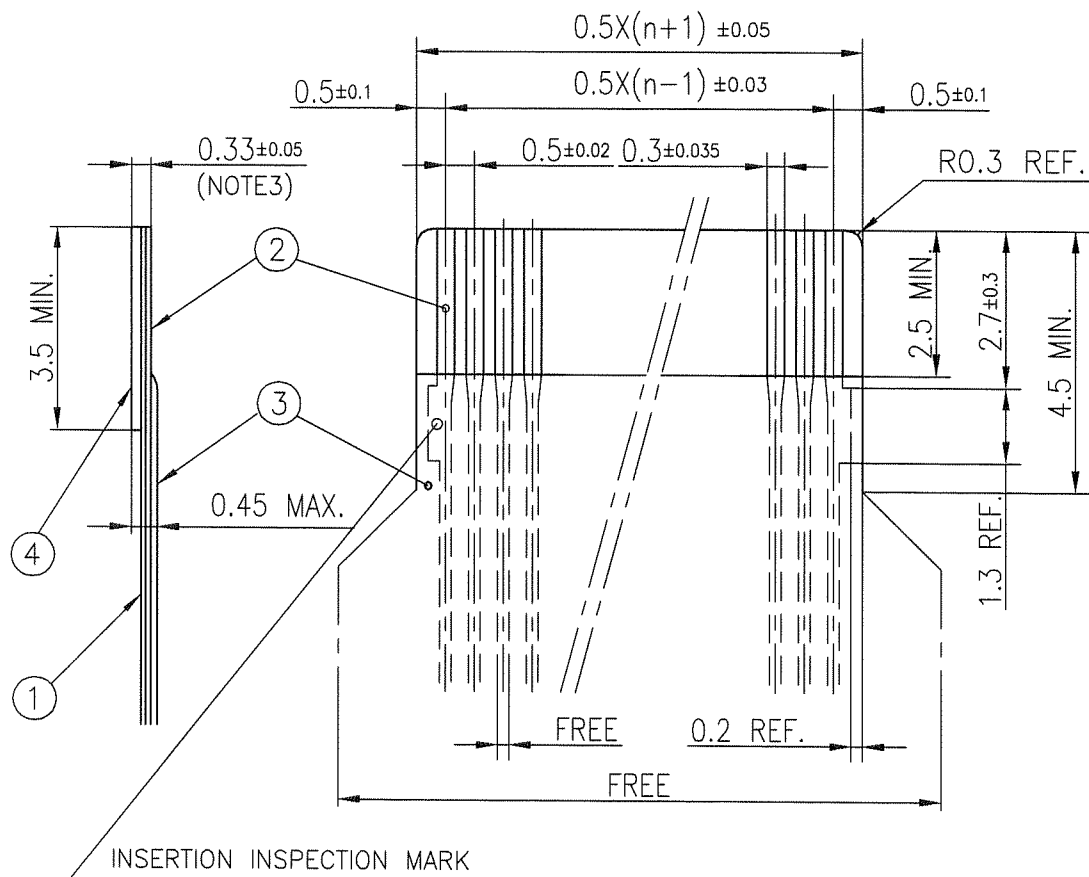
NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC AND COPS WITH AUTOMATIC MOUNTING (SMT).
- SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSS) TAPE AND REEL.
- 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-2STE9HLF)			
A				angles	linear	mm		dwg no sheet 7 of 9 size			
						scale X		10117320 A4			
				dr	S. Kishida	2011-2-10			type Product Customer Drawing		
			engr	S. Kishida	2011-2-10						
			chr	Y. Kishida	2011-2-10						
			appd	M. Kishida	2011-2-10						
sheet index	revision sheet										Rev. A

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

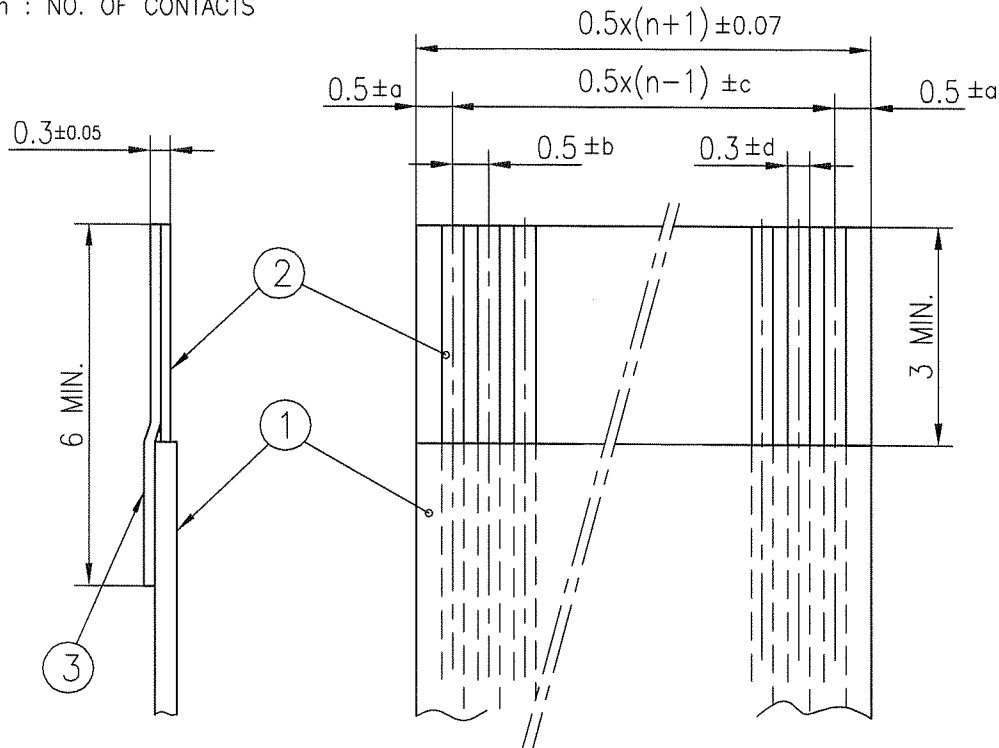
NOTES

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		product family 58EF		CODE 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		dwg no sheet 8 of 9 size			
				dr	S. Watanabe	2011-2-10		10112793		A4	
			engr	B. Watanabe	2011-2-10	type Product Customer Drawing		Rev. A			
			chr	M. Komatsu	2011-2-10						
			appd	M. Watanabe	Feb 2011						
sheet index	revision sheet										

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 ☒ ISO 406 ISO 1101		tolerance ISO 406 ISO 1101		projection 		product family 58EF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		angles		linear		title RECOMMENDED CABLE (Cat. No. : SFV__R-1/2ST__LF)			
A										dwg no 10117320		sheet 9 of 9	
				dr		S. N. Tada		2011-2-10		size A4			
				enrg		S. N. Tada		2011-2-10					
				chr		Y. Kamada		2011-2-10					
				appd		M. A. S.		Feb 10/11					
sheet index				revision sheet						type Product Customer Drawing		Rev. A	