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form: A4

1

PDM: Rev:A

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2

List of "SFV__R-3/4STE1HLF" customer document

DOCUMENT NO.	LIST
10117319(Sheet1)	DOCUMENT LIST
10117319(Sheet2)	CAT.NO.TABLE FOR 0.5mm CONTACT SPACING CONNECTOR (SFV__R-3/4ST_HLF)
10117319(Sheet3)	CONNECTOR USED FOR FPC WITH 0.5mm CONTACT SPACING (SFV__R-3ST_HLF)
10117319(Sheet4)	CONNECTOR USED FOR FPC WITH 0.5mm CONTACT SPACING (SFV__R-4ST_HLF)
10117319(Sheet5)	CAT.NO.TABLE FOR PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-3/4STE1HLF)
10117319(Sheet6)	PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-3STE1HLF)
10117319(Sheet7)	PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-4STE1HLF)
10117319(Sheet8)	RECOMMENDED CABLE (FPC) (SFV__R-3/4ST_HLF)
GS-12-0844	SPEC.
BJM-SFV102	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						title 0.5mm SPACING FPC CONNECTOR DOCUMENT LIST (Cat. No. : SFV__R-3/4STE1HLF)			
A	J11-0042	S.W.	2011-2-10	angles	linear								
				dr	S. Nishida 2011-2-10					dwg no		sheet 1 of 8	size
				enrg	S. Nishida 2011-2-10					10117319		A4	
				chr	Y. Kamada 2011-2-10					type Product Customer Drawing			
				appd	M. Nishida Feb 10/11								
sheet index	revision sheet	A	A	A	A	A	A	A	A				Rev. A

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	SFV 4R-3/4ST__HLF	7.5	5.9	1.5	1.6
5	SFV 5R-3/4ST__HLF	8.0	6.4	2.0	2.1
6	SFV 6R-3/4ST__HLF	8.5	6.9	2.5	2.6
7	SFV 7R-3/4ST__HLF	9.0	7.4	3.0	3.1
8	SFV 8R-3/4ST__HLF	9.5	7.9	3.5	3.6
9	SFV 9R-3/4ST__HLF	10.0	8.4	4.0	4.1
10	SFV10R-3/4ST__HLF	10.5	8.9	4.5	4.6
11	SFV11R-3/4ST__HLF	11.0	9.4	5.0	5.1
12	SFV12R-3/4ST__HLF	11.5	9.9	5.5	5.6
13	SFV13R-3/4ST__HLF	12.0	10.4	6.0	6.1
14	SFV14R-3/4ST__HLF	12.5	10.9	6.5	6.6
15	SFV15R-3/4ST__HLF	13.0	11.4	7.0	7.1
16	SFV16R-3/4ST__HLF	13.5	11.9	7.5	7.6
17	SFV17R-3/4ST__HLF	14.0	12.4	8.0	8.1
18	SFV18R-3/4ST__HLF	14.5	12.9	8.5	8.6
19	SFV19R-3/4ST__HLF	15.0	13.4	9.0	9.1
20	SFV20R-3/4ST__HLF	15.5	13.9	9.5	9.6
21	SFV21R-3/4ST__HLF	16.0	14.4	10.0	10.1
22	SFV22R-3/4ST__HLF	16.5	14.9	10.5	10.6
23	SFV23R-3/4ST__HLF	17.0	15.4	11.0	11.1
24	SFV24R-3/4ST__HLF	17.5	15.9	11.5	11.6
25	SFV25R-3/4ST__HLF	18.0	16.4	12.0	12.1
26	SFV26R-3/4ST__HLF	18.5	16.9	12.5	12.6
27	SFV27R-3/4ST__HLF	19.0	17.4	13.0	13.1
28	SFV28R-3/4ST__HLF	19.5	17.9	13.5	13.6
29	SFV29R-3/4ST__HLF	20.0	18.4	14.0	14.1
30	SFV30R-3/4ST__HLF	20.5	18.9	14.5	14.6
31	SFV31R-3/4ST__HLF	21.0	19.4	15.0	15.1
32	SFV32R-3/4ST__HLF	21.5	19.9	15.5	15.6
33	SFV33R-3/4ST__HLF	22.0	20.4	16.0	16.1
34	SFV34R-3/4ST__HLF	22.5	20.9	16.5	16.6
35	SFV35R-3/4ST__HLF	23.0	21.4	17.0	17.1

CAT. NO.

SFV (n) R - 3 ST ___ HLF

SERIES NAME

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR FPC,
WITH CABLE LOCK MECHANISM

CONTACT DIRECTION

3: LOWER CONTACT TYPE

4: UPPER CONTACT TYPE

FOR AUTOMATIC MOUNTING
(SMT)

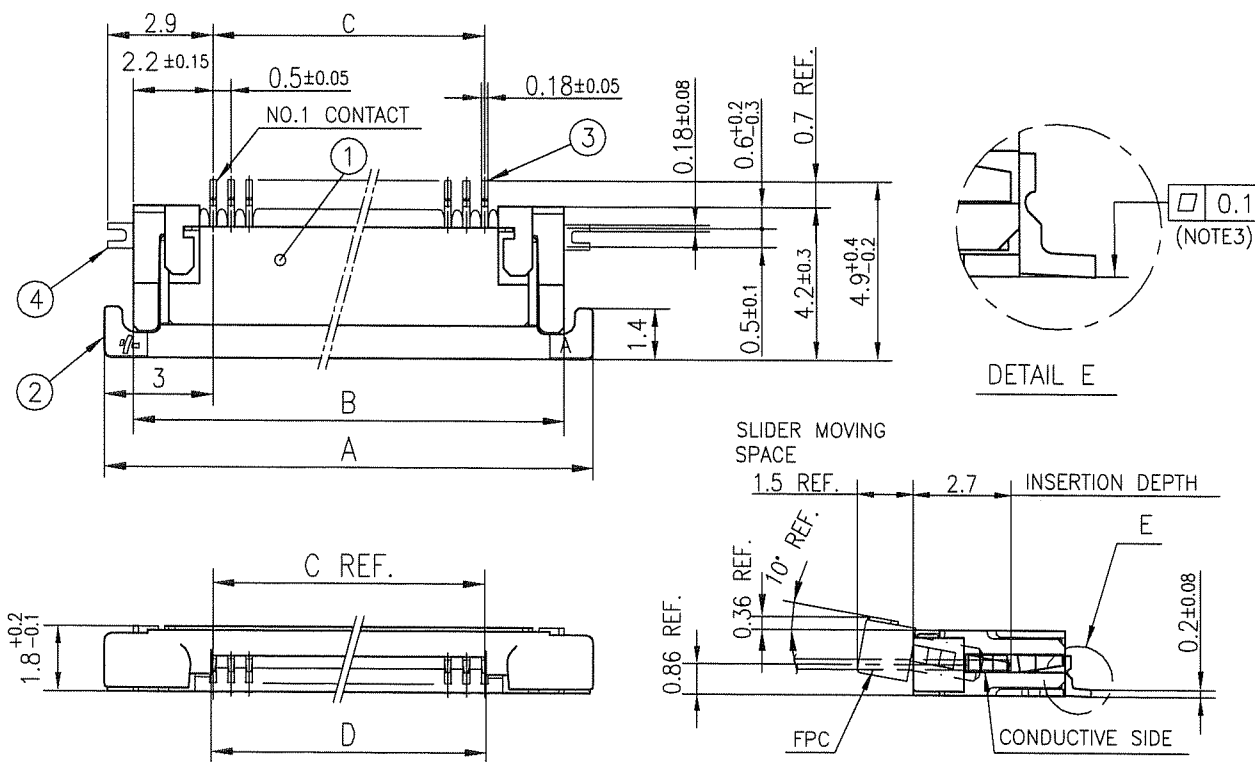
PACKAGE STYLE

HALOGEN AND LEAD FREE

NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND CYPES WITH AUTOMATIC MOUNTING (SMT).
2. SEE PART DRAWINGS FOR DIMENSIONS A~D.
3. THIS PRODUCT IS THE CONNECTOR WITH CABLE LOCK MECHANISM.

mat'l. code				surface ☒ ISO 1302 ☒ ISO 406 ☒ ISO 1101		tolerance		projection		product family 58EF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		mm		title			
A				angles linear		mm		mm		CAT. NO. TABLE FOR 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-3/4ST__HLF)			
								scale		dwg no		sheet 2 of 8	size
								FCI		10117319			A4
sheet index				revision sheet		dr		engr		chr		appd	
						S. Nishida 2011-2-10		S. Nishida 2011-2-10		Y. Kamada 2011-2-10		Feb 10 11	
										type		Product Customer Drawing	
												Rev. A	

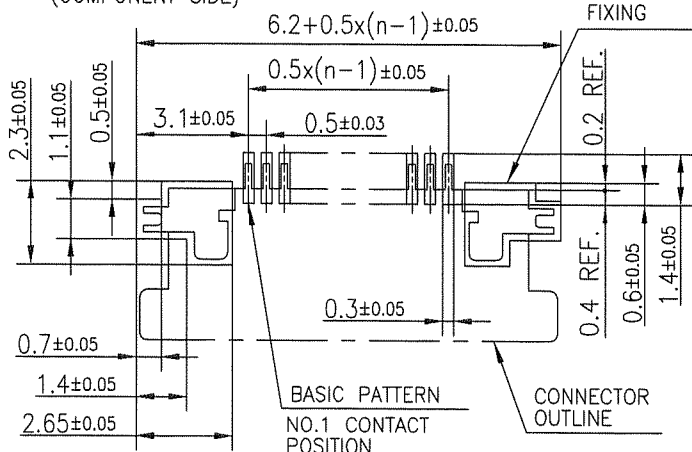


PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	13~35pin : LCP RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK (HALOGEN FREE)
		4~12pin : POLYAMIDE RESIN GLASS REINFORCED (UL94V-0)		
2	SLIDER	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : GRAY (HALOGEN FREE)
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : MATTE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

RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE)

PATTERN FOR
MOUNTING PLATE
FIXING

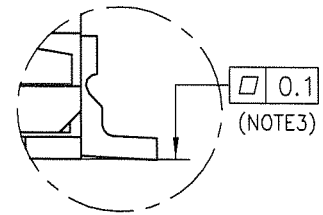
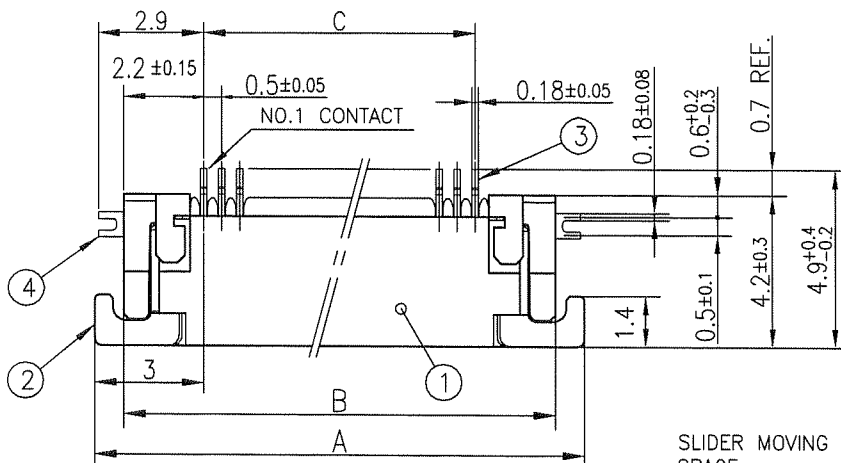
n : NO. OF CONTACTS



NOTES

- 1.THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPS WITH AUTOMATIC MOUNTING (SMT).
- 2.THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR WITH CABLE LOCK MECHANISM.
- 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		angles		mm		title CONNECTOR USED FOR FPC WITH 0.5 mm CONTACT SPACING (Cat. No. : SFV__R-3ST__HLF)			
A				linear		±0.2		scale		dwg no		sheet 3 of 8	
				dr		2011-2-10		FCJ		10117319		size A4	
				engr		2011-2-10				type		Product Customer Drawing	
				chr		2011-2-10							
				appd		Feb 10/11							
sheet index		revision sheet										Rev. A	



DETAIL E

SLIDER MOVING SPACE

1.4 REF.

2.7 INSERTION DEPTH

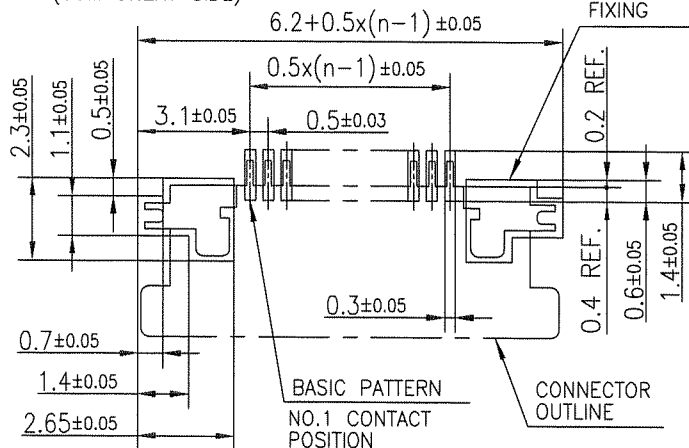
CONDUCTIVE SIDE

FPC

E

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 : GRAY (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 COPER WITH AUTOMATIC MOUNTING (SMT).
2. THIS PRODUCT IS UPPER CONTACT TYPE CONNECTOR WITH CABLE LOCK MECHANISM.
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 ✓ ISO 406 ISO 1101		tolerance ISO 406 ISO 1101		projection mm		product family 58EF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		angles linear		scale		title CONNECTOR USED FOR FPC WITH 0.5 mm CONTACT SPACING (Cat. No. : SFV__R-4ST__HLF)			
A													
				dr		S. Mitoh		2011-2-10		dwg no			
				enr		S. Mitoh		2011-2-10		sheet 4 of 8			
				chr		Y. Kamada		2011-2-10		10117319			
				appd		M. Mitoh		FBC/11		size A4			
sheet index				revision sheet						type Product Customer Drawing			
										Rev. A			

CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO.	DIMENSIONS (NOTE3)		
		F ± 5	G ± 0.3	H ± 0.1
4	SFV 4R-3/4STE1HLF	20.4	16	—
5	SFV 5R-3/4STE1HLF	20.4	16	—
6	SFV 6R-3/4STE1HLF	20.4	16	—
7	SFV 7R-3/4STE1HLF	28.4	24	—
8	SFV 8R-3/4STE1HLF	28.4	24	—
9	SFV 9R-3/4STE1HLF	28.4	24	—
10	SFV10R-3/4STE1HLF	28.4	24	—
11	SFV11R-3/4STE1HLF	28.4	24	—
12	SFV12R-3/4STE1HLF	28.4	24	—
13	SFV13R-3/4STE1HLF	28.4	24	—
14	SFV14R-3/4STE1HLF	28.4	24	—
15	SFV15R-3/4STE1HLF	28.4	24	—
16	SFV16R-3/4STE1HLF	28.4	24	—
17	SFV17R-3/4STE1HLF	28.4	24	—
18	SFV18R-3/4STE1HLF	28.4	24	—
19	SFV19R-3/4STE1HLF	28.4	24	—
20	SFV20R-3/4STE1HLF	28.4	24	—
21	SFV21R-3/4STE1HLF	28.4	24	—
22	SFV22R-3/4STE1HLF	28.4	24	—
23	SFV23R-3/4STE1HLF	36.4	32	28.4
24	SFV24R-3/4STE1HLF	36.4	32	28.4
25	SFV25R-3/4STE1HLF	36.4	32	28.4
26	SFV26R-3/4STE1HLF	36.4	32	28.4
27	SFV27R-3/4STE1HLF	36.4	32	28.4
28	SFV28R-3/4STE1HLF	36.4	32	28.4
29	SFV29R-3/4STE1HLF	36.4	32	28.4
30	SFV30R-3/4STE1HLF	36.4	32	28.4
31	SFV31R-3/4STE1HLF	48.4	44	40.4
32	SFV32R-3/4STE1HLF	48.4	44	40.4
33	SFV33R-3/4STE1HLF	48.4	44	40.4
34	SFV34R-3/4STE1HLF	48.4	44	40.4
35	SFV35R-3/4STE1HLF	48.4	44	40.4

CAT. NO.

SFV (n) R - 3 ST E1 HLF

SERIES NAME

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR FPC,
WITH CABLE LOCK MECHANISM

CONTACT DIRECTION

3: LOWER CONTACT TYPE

4: UPPER CONTACT TYPE

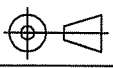
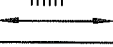
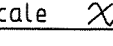
FOR AUTOMATIC MOUNTING
(SMT)

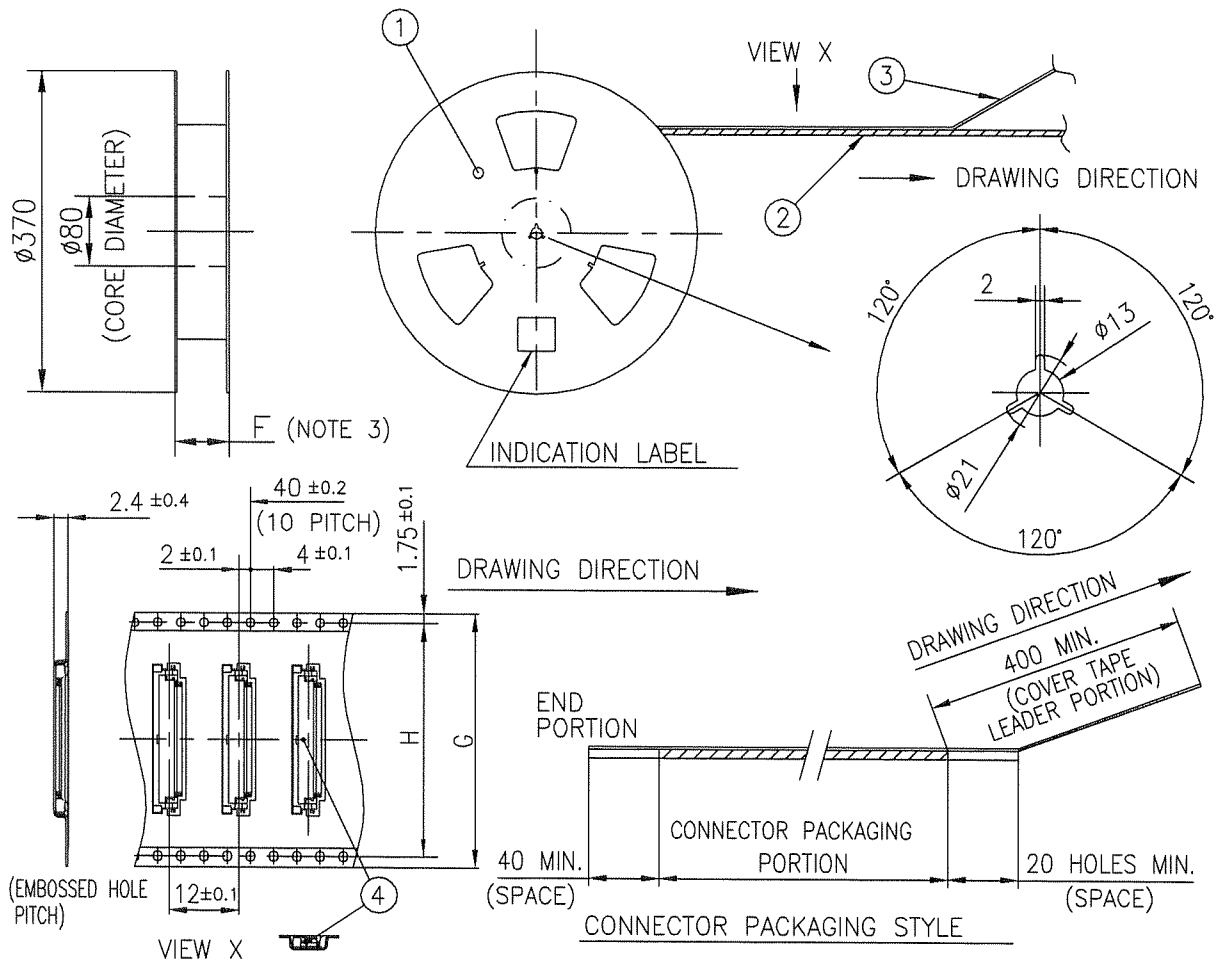
PACKAGE STYLE

HALOGEN FREE 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
3. SEE PART DRAWINGS FOR DIMENSIONS F~H.
4. THIS PRODUCT IS THE CONNECTOR WITH CABLE LOCK MECHANISM.

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			
A				angles	linear	scale 		CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-3/4STE1HLF)			
				dr	S. Mithal 2011-2-10	F		dwg no		sheet 5 of 8	size
				enr	S. Mithal 2011-2-10	F		10117319			A4
				chr	V. Ramola 2011-2-10	F					
				appd	M. Mithal Feb 10/11	F					
sheet index		revision sheet						type Product Customer Drawing		Rev. A	

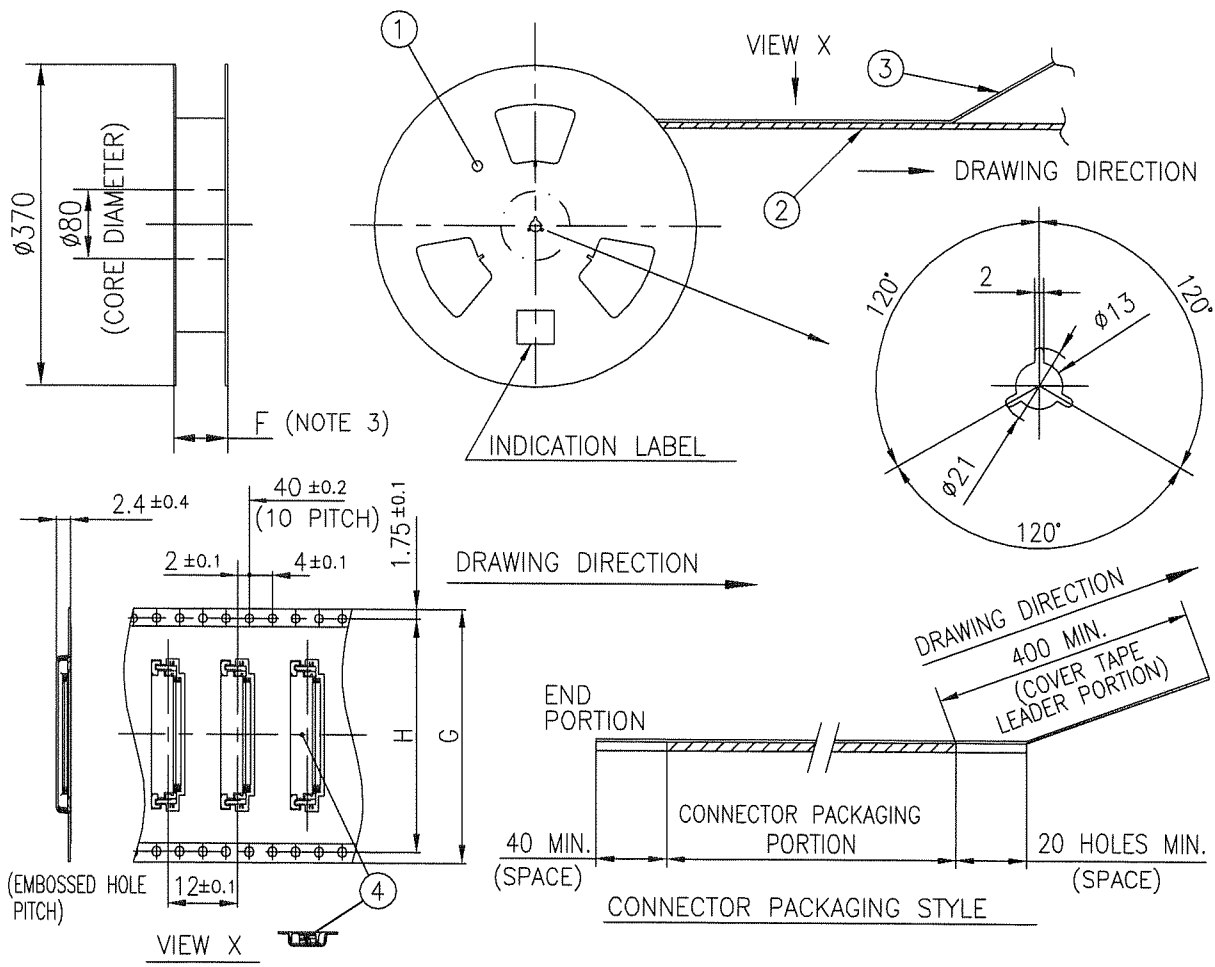


PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL		CARDBOARD	1	COLOR : WHITE
2	PLASTIC (EMBOSS) TAPE		A-PET		COLOR : TRANSPARENCY
3	COVER		POLYESTER		COLO : TRANSPARENCY
4	CONNECTOR	SFV__R-3ST__HLF	SEE ATTACHED DWG.	3000	LOWER CONTACT TYPE WITH CABLE LOCK MECHANISM

NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC AND COPES 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			
A				angles linear ±5		mm		PLASTIC TAPE PACKAGED			
				±5'		scale X		0.5 mm CONTACT SPACING CONNECTOR			
				dr S. Mitake 2011-2-10				dwg no sheet 6 of 8 size			
				enr S. Mitake 2011-2-10				10117319 A4			
				chr Y. Kamoto 2011-2-10							
				appd M. Chiba Feb 10/11							
sheet index		revision sheet						type Product Customer Drawing		Rev. A	

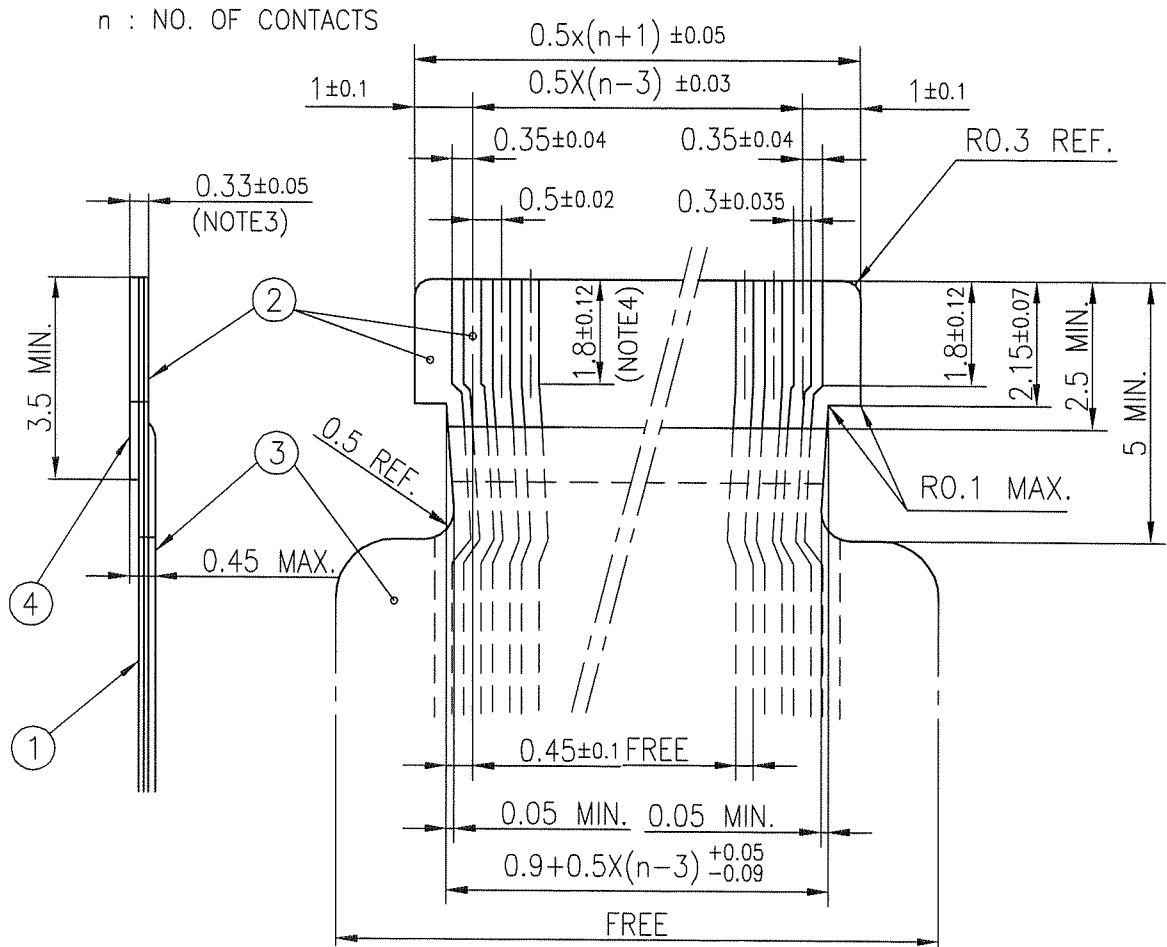


PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	CARDBOARD	1	COLOR : WHITE
2	PLASTIC (EMBOSS) TAPE	_____	A-PET	_____	COLOR : TRANSPARENCY
3	COVER	_____	POLYESTER	_____	COLOR : TRANSPARENCY
4	CONNECTOR	SFV__R-4ST__HLF	SEE ATTACHED DWG.	3000	UPPER CONTACT TYPE WITH CABLE LOCK MECHANISM

- 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			
A				angles linear		mm		PLASTIC TAPE PACKAGED 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-4STE1HLF)			
				±5'		scale X		dwg no sheet 7 of 8 size			
				dr S. Nishida 2011-2-10				10117319 A4			
				enr S. Nishida 2011-2-10				type Product Customer Drawing			
				chr Y. Kamada 2011-2-10							
				appd M. Nishida 2011-2-10							
sheet index		revision sheet								Rev. A	

RECOMMENDED CABLE (FPC)



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.
4. THIS DIMENSION INDICATES THE RANGE FOR 0.3±0.035 CONDUCTOR WIDTH.

mat'l. code				surface ☒ ISO 1302 ☒ 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			
						scale X		(Cat. No. : SFV__R-3/4STB__HLF)			
				dr 2011-2-10				dwg no		sheet 8 of 8	
				enr 2011-2-10				10117319		size A4	
				chr 2011-2-10							
				appd							
sheet index		revision sheet						type Product Customer Drawing		Rev. A	