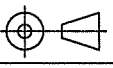
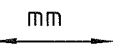


List of "SFW__R-1/2STE9LF" customer document

DOCUMENT NO.	LIST
10101159(SHEET1)	DOCUMENT LIST
10101159(SHEET2)	CAT.NO.TABLE FOR 1mm SPACING SMT CONNECTOR (SFW__R-1/2ST__LF)
10101159(SHEET3)	1mm SPACING SMT CONNECTOR (SFW__R-1ST_LF)
10101159(SHEET4)	1mm SPACING SMT CONNECTOR (SFW__R-2ST_LF)
10101159(SHEET5)	CAT.NO.TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (SFW__R-1/2STE9LF)
10101159(SHEET6)	PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (SFW__R-1STE9LF)
10101159(SHEET7)	PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (SFW__R-2STE9LF)
10101159(SHEET8)	RECOMMENDED CABLE (FPC) (SFW__R-1/2ST_)
10101159(SHEET9)	RECOMMENDED CABLE (FFC) (SFW__R-1/2ST_)
SC-SFW10	PRODUCT SPECIFICATION
BJM-SFW101	HANDLING PROCEDURES

mat'l. code -				surface 58 / tolerance ISO 1302 ☒ ISO 406 ☒ ISO 1101		projection 		product family 58RF		CODE JP		
ltr	ecn no	dr	date	tolerances, unless otherwise specified				mm 		title 1mm SPACING SMT CONNECTOR DOCUMENT LIST (Cat. No. : SFW__R-1/2STE9LF)		
A	S09-0138	DGOH	09-04-30	angles	linear							
B	J09-0356	M.Y	2009-10-2					scale $\times$				
				dr	M.YAMASHITA		2009-10-2				dwg no sheet 1 of 9 size	
				enr	M.YAMASHITA		2009-10-2				10101159 A4	
				chr	S. Nishida		2009-10-2					
				appd	J. Shikawa		2009-10-2					
sheet index	revision sheet	B	B	B	B	B	B	B	B	B	Rev. B	

CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO.	DIMENSIONS (NOTE2)			
		A ± 0.2	B ± 0.2	C ± 0.2	D ± 0.1
4	SFW4R-1/2ST__LF	9.8	8.6	3.0	5.3
5	SFW5R-1/2ST__LF	10.8	9.6	4.0	6.3
6	SFW6R-1/2ST__LF	11.8	10.6	5.0	7.3
7	SFW7R-1/2ST__LF	12.8	11.6	6.0	8.3
8	SFW8R-1/2ST__LF	13.8	12.6	7.0	9.3
9	SFW9R-1/2ST__LF	14.8	13.6	8.0	10.3
10	SFW10R-1/2ST__LF	15.8	14.6	9.0	11.3
11	SFW11R-1/2ST__LF	16.8	15.6	10.0	12.3
12	SFW12R-1/2ST__LF	17.8	16.6	11.0	13.3
13	SFW13R-1/2ST__LF	18.8	17.6	12.0	14.3
14	SFW14R-1/2ST__LF	19.8	18.6	13.0	15.3
15	SFW15R-1/2ST__LF	20.8	19.6	14.0	16.3
16	SFW16R-1/2ST__LF	21.8	20.6	15.0	17.3
17	SFW17R-1/2ST__LF	22.8	21.6	16.0	18.3
18	SFW18R-1/2ST__LF	23.8	22.6	17.0	19.3
19	SFW19R-1/2ST__LF	24.8	23.6	18.0	20.3
20	SFW20R-1/2ST__LF	25.8	24.6	19.0	21.3
21	SFW21R-1/2ST__LF	26.8	25.6	20.0	22.3
22	SFW22R-1/2ST__LF	27.8	26.6	21.0	23.3
23	SFW23R-1/2ST__LF	28.8	27.6	22.0	24.3
24	SFW24R-1/2ST__LF	29.8	28.6	23.0	25.3
25	SFW25R-1/2ST__LF	30.8	29.6	24.0	26.3
26	SFW26R-1/2ST__LF	31.8	30.6	25.0	27.3
27	SFW27R-1/2ST__LF	32.8	31.6	26.0	28.3
28	SFW28R-1/2ST__LF	33.8	32.6	27.0	29.3
29	SFW29R-1/2ST__LF	34.8	33.6	28.0	30.3
30	SFW30R-1/2ST__LF	35.8	34.6	29.0	31.3

CAT. NO.

SFW (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)

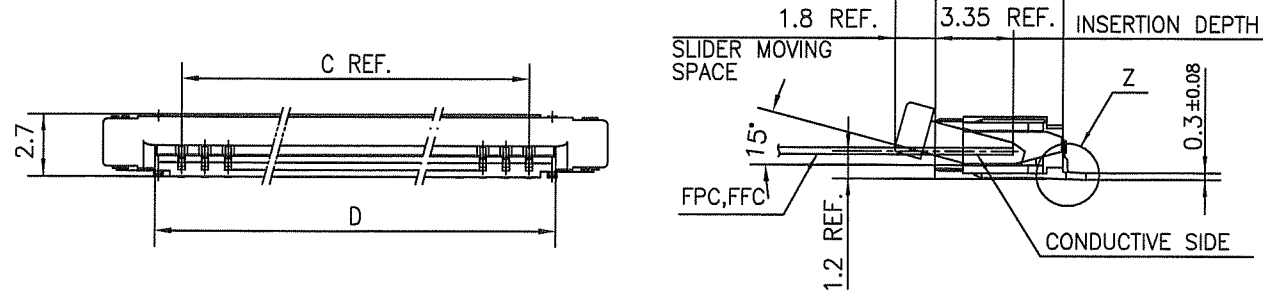
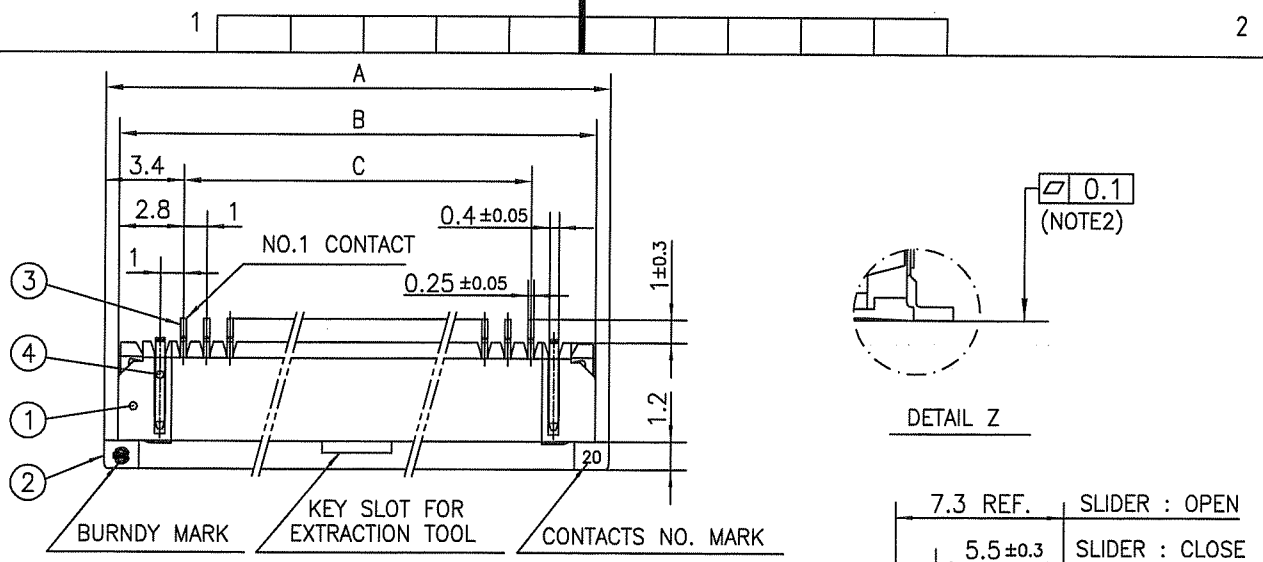
PACKAGE STYLE

LEAD FREE

NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND COPELS WITH AUTOMATIC MOUNTING (SMT).
2. SEE PART DRAWINGS FOR DIMENSIONS A~D.

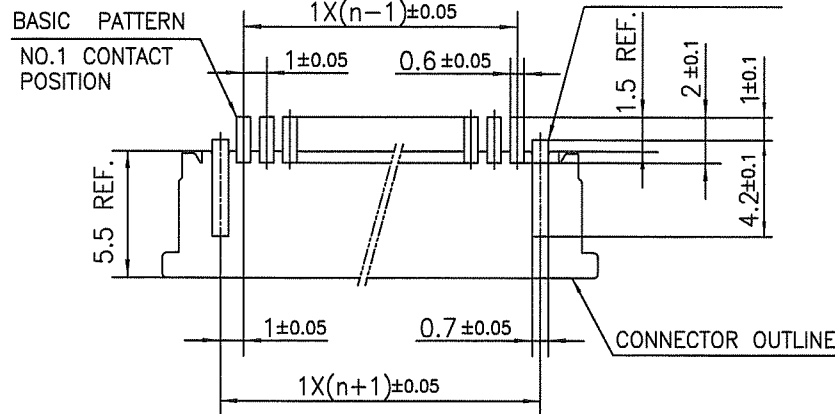
mat'l. code				surface 58 / tolerance ISO 1302		projection		product family 58RF		CODE JP	
ltr ecn no dr date				tolerances unless otherwise specified		mm		title			
B				angles linear		scale X		CAT. NO. TABLE FOR 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-1/2ST__LF)			
				dr MYAHASHITA 2009-10-2		FCI		dwg no sheet 2 of 9 size			
				engr MYAHASHITA 2009-10-2				10101159 A4			
				chr S. Nishida 2009-10-2				type Product Customer Drawing			
				appd S. Nishida 2009-10-2				Rev. B			
sheet index		revision sheet									



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

n : NO. OF CONTACTS

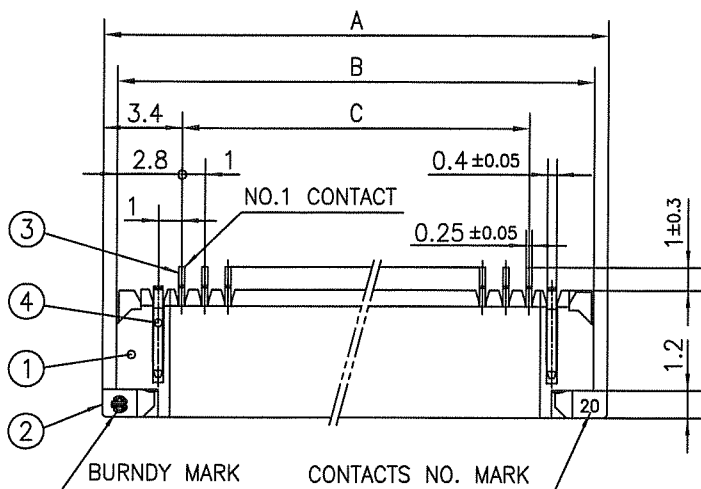
RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)



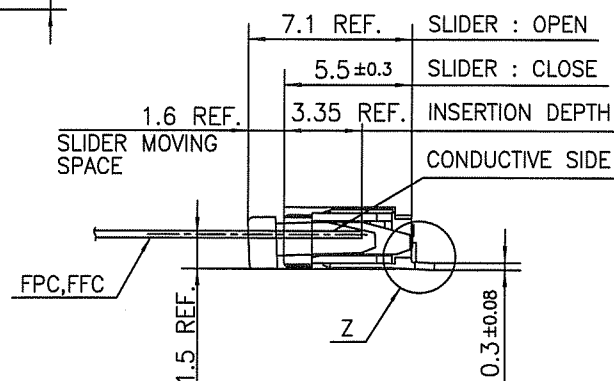
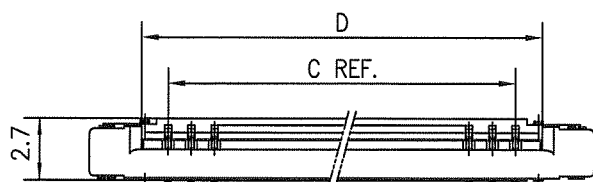
NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND COPES WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS FOR CONTACT TERMINAL HOUSING MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR.
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 58 / tolerance ISO 1302 ✓ / ISO 406 / ISO 1101		projection		product family 58RF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title			
B				angles linear ±0.2		scale X		1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-1ST__LF)			
				dr H. YAMASHITA 2009-10-2				dwg no		sheet 3 of 9	
				enr H. YAMASHITA 2009-10-2				10101159		A4	
				chr S. W. 2009-10-2				type		Product Customer Drawing	
				appd J. Blackman 2009-10-2							
sheet index		revision sheet								Rev. B	



DETAIL Z

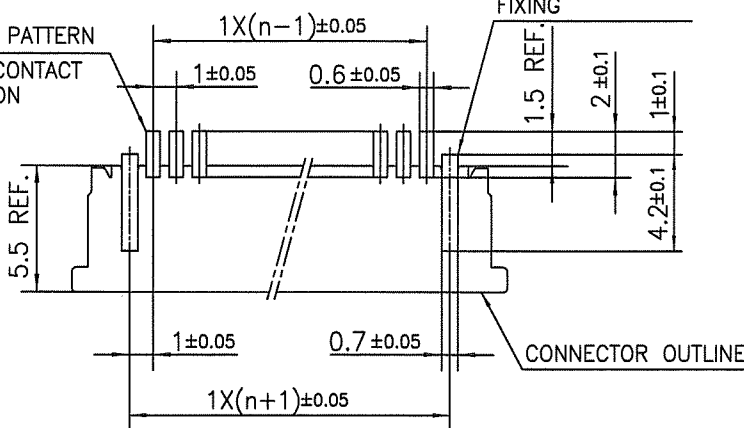


PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BROWN
2	SLIDER		1	COLOR : BLACK
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : TIN
4	MOUNTING PLATE		2	

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)

BASIC PATTERN
NO.1 CONTACT
POSITION



NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND CYPES WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS FOR CONTACT TERMINAL HOUSING MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS PRODUCT IS UPPER CONTACT TYPE CONNECTOR.
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 58 ISO 1302		tolerance ISO 406 ISO 1101		projection mm		product family 58RF		CODE JP	
ltr ecn no dr date				tolerances unless otherwise specified		angles linear		scale X		title 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-2ST__LF)			
B										dwg no sheet 4 of 9 size 10101159 A4			
				dr M. YAMASHITA 2009-10-2		2009-10-2		FCI		type Product Customer Drawing			
				enr M. YAMASHITA 2009-10-2		2009-10-2							
				chr S. W. H. 2009-10-2		2009-10-2							
				appd S. W. H. 2009-10-2		2009-10-2							
sheet index		revision sheet										Rev. B	

CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO. (NOTE2)	DIMENSIONS (NOTE3)		
		E MAX.	F ± 0.3	G ± 0.1
4	SFW4R-1/2STE9LF	22.4	16	—
5	SFW5R-1/2STE9LF	30.4	24	—
6	SFW6R-1/2STE9LF	30.4	24	—
7	SFW7R-1/2STE9LF	30.4	24	—
8	SFW8R-1/2STE9LF	30.4	24	—
9	SFW9R-1/2STE9LF	30.4	24	—
10	SFW10R-1/2STE9LF	30.4	24	—
11	SFW11R-1/2STE9LF	30.4	24	—
12	SFW12R-1/2STE9LF	30.4	24	—
13	SFW13R-1/2STE9LF	38.4	32	28.4
14	SFW14R-1/2STE9LF	38.4	32	28.4
15	SFW15R-1/2STE9LF	38.4	32	28.4
16	SFW16R-1/2STE9LF	38.4	32	28.4
17	SFW17R-1/2STE9LF	50.4	44	40.4
18	SFW18R-1/2STE9LF	50.4	44	40.4
19	SFW19R-1/2STE9LF	50.4	44	40.4
20	SFW20R-1/2STE9LF	50.4	44	40.4
21	SFW21R-1/2STE9LF	50.4	44	40.4
22	SFW22R-1/2STE9LF	50.4	44	40.4
23	SFW23R-1/2STE9LF	50.4	44	40.4
24	SFW24R-1/2STE9LF	50.4	44	40.4
25	SFW25R-1/2STE9LF	50.4	44	40.4
26	SFW26R-1/2STE9LF	50.4	44	40.4
27	SFW27R-1/2STE9LF	50.4	44	40.4
28	SFW28R-1/2STE9LF	62.4	56	52.4
29	SFW29R-1/2STE9LF	62.4	56	52.4
30	SFW30R-1/2STE9LF	62.4	56	52.4

CAT. NO.

SFW (n) R - 1 ST E9 LF

SERIES NAME

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR FPC/FFC,
WITH CABLE LOCK MECHANISM

CONTACT DIRECTION

1. LOWER CONTACT TYPE
2. UPPER CONTACT TYPE

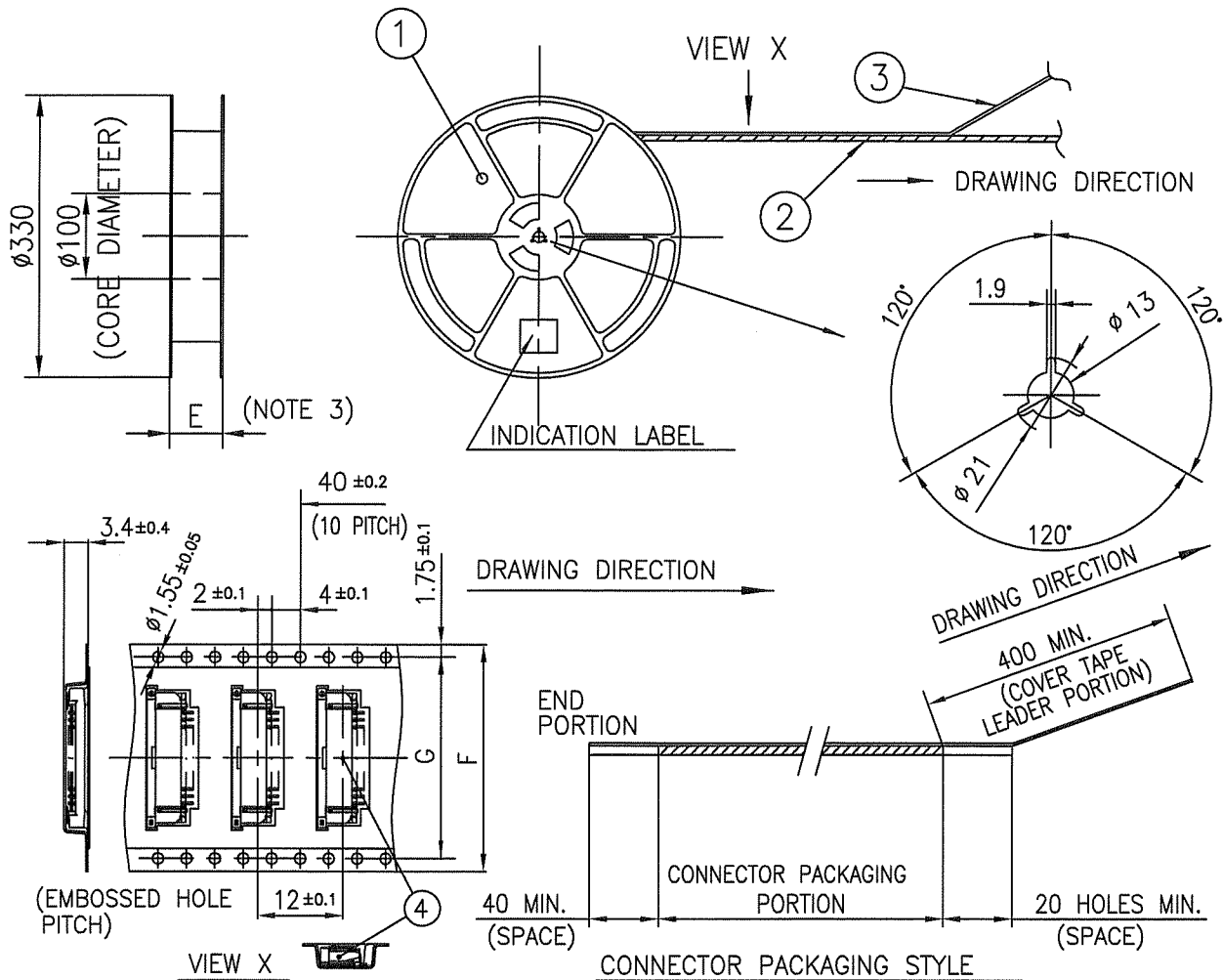
FOR AUTOMATIC MOUNTING
(SMT)TAPE PACKAGING FOR E9
(500pcs PER REEL)

LEAD FREE

NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND COPE WITH AUTOMATIC MOUNTING (SMT).
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
3. SEE PART DRAWINGS FOR DIMENSIONS E~G.

mat'l. code				surface 58 / tolerance ISO 1302 ✓ ISO 406 ISO 1101		projection		product family 58RF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified				title CAT NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-1/2STE9LF)			
B				angles	linear	mm					
						scale X		dwg no 10101159 sheet 5 of 9 size A4			
				dr	HYAMASHITA 2009-10-2	FCJ					
				engr	HYAMASHITA 2009-10-2			type Product Customer Drawing			
				chr	S. H. H. 2009-10-2						
				appd	S. H. H. 2009-10-2			Rev. B			
sheet index	revision sheet										

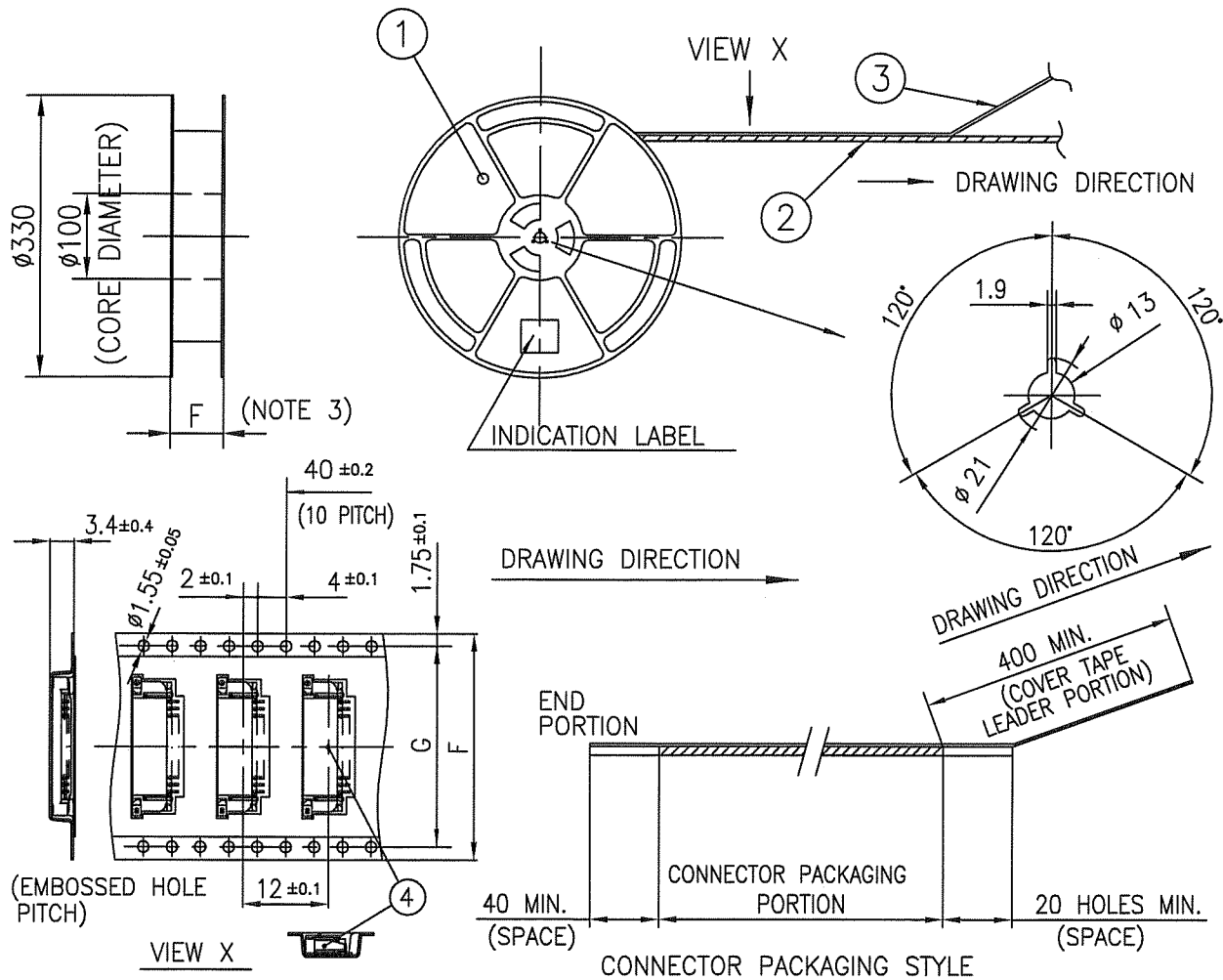


PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	POLYSTYRENE	1	COLOR : WHITE or BLACK
2	PLASTIC (EMBOSS) TAPE	_____	PET	_____	COLOR : TRANSPARENCY (CLEAR)
3	COVER	_____	POLYESTER	_____	COLOR : TRANSPARENCY (CLEAR)
4	CONNECTOR	SFW__R-1ST__LF	SEE ATTACHED DWG.	500	LOWER CONTACT TYPE

NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC/FFC AND CYPES 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.
- E DIMENSION IS PORTION OF THE CORE.

mat'l. code				surface ☒ ISO 1302 ☒ ISO 406 ☒ ISO 1101		projection ☒ mm ☒ scale ☒		product family 58RF		CODE JP	
ltr ecn no dr date				tolerances unless otherwise specified		mm		title PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-1STE9LF)			
B				angles linear		mm		dwg no 10101159 sheet 6 of 9 size A4			
				±5°		mm		type Product Customer Drawing			
				dr H. YAMASHITA 2009-10-2		mm		Rev. B			
				enr H. YAMASHITA 2009-10-2		mm					
				chr S. Nishida 2009-10-2		mm					
				appd J. Oudam 2009-10-2		mm					
sheet index		revision sheet									



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

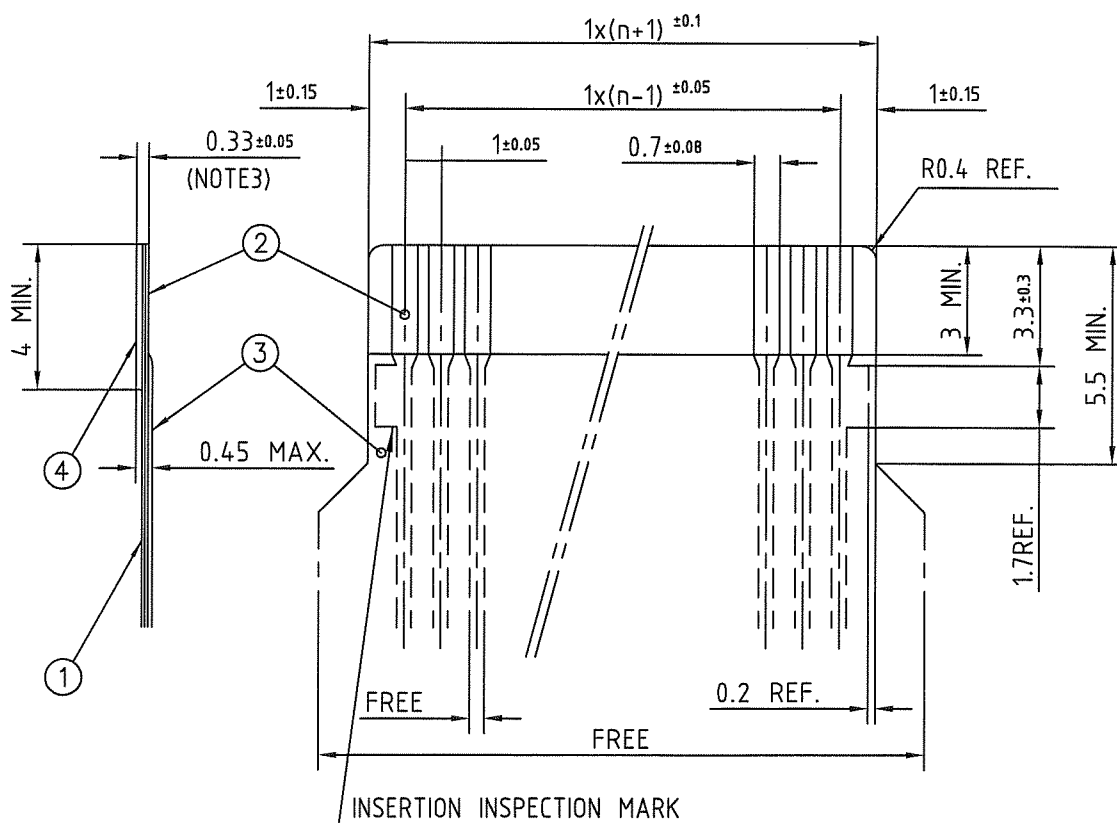
NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC/FFC AND CYPES 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.
- E DIMENSION IS PORTION OF THE CORE.

mat'l. code				surface ☒ ISO 1302 ☒ tolerance ☒ ISO 406 ☒ ISO 1101		projection ☒		product family 58RF		CODE JP	
ltr ecn no dr date				tolerances unless otherwise specified		☒		title PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-2STE9LF)			
B				angles linear		mm		dwg no 10101159 sheet 7 of 9 size A4			
				±5°		scale X		type Product Customer Drawing			
sheet index				revision sheet		FCI		Rev. B			

RECOMMENDED CABLE (FPC)

n : NO. OF CONDUCTOR



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

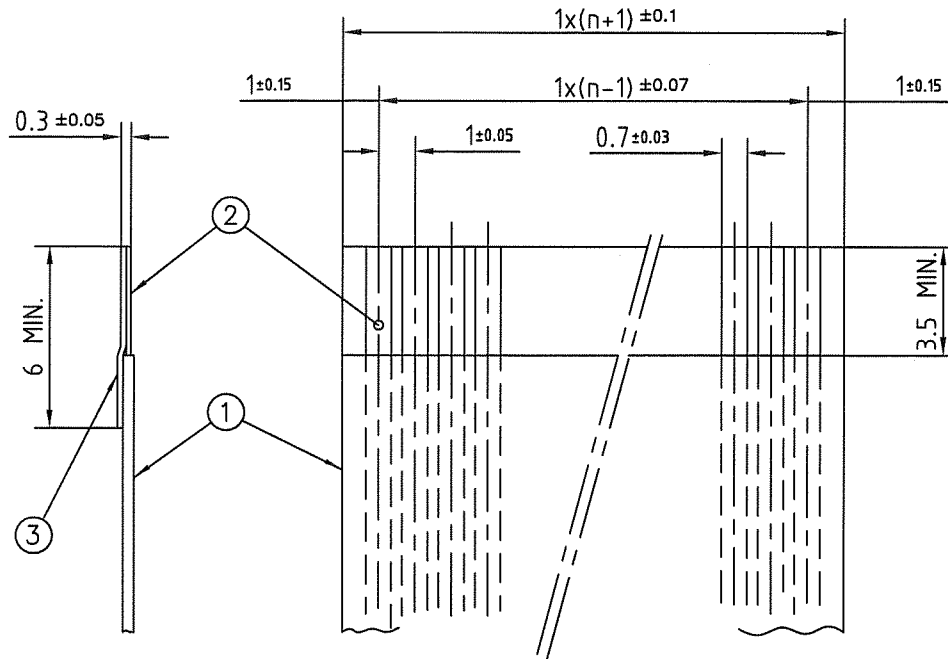
NOTES

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 58 / tolerance ISO 1302 ✓ / ISO 406 / ISO 1101		projection		product family 58RF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title			
B				angles linear		scale X		RECOMMENDED CABLE			
								(Cat. No. SFW__R-1/2__)			
				dr H. YAHASHITA 2009-10-2		FCI		dwg no		sheet 8 of 9	
				enr H. YAHASHITA 2009-10-2				10101159		size A4	
				chr S. KITA 2009-10-2				type		Product Customer Drawing	
				appd J. Andam 2009-10-2							
sheet index	revision sheet										Rev. B

RECOMMENDED CABLE (FFC)

n : NO. OF CONDUCTOR



PT. NO.	PARTS NAME	MATERIAL	NOTE
1	INSULATOR	FLAME RESISTING POLYESTER OR EQUAL	_____
2	CONDUCTOR	COPPER FOIL	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.

mat'l. code				surface 58 / tolerance ISO 1302 ✓ ISO 406 ISO 1101		projection		product family 58RF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title			
B				angles	linear	scale X		RECOMMENDED CABLE (Cat. No. SFW__R-1/2__)			
				dr	H. YAMASHITA	2009-10-2			dwg no		sheet 9 of 9
				enr	H. YAMASHITA	2009-10-2			10101159		size
				chr	S. M. M. M.	2009-10-2			type		Product Customer Drawing
				appd	S. M. M. M.	2009-10-2					
sheet index	revision sheet										Rev. B