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form: A4

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)

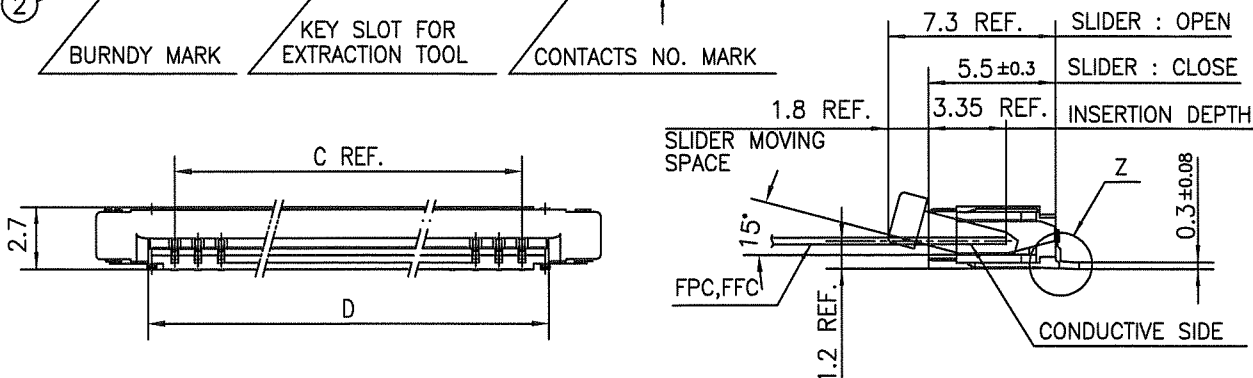
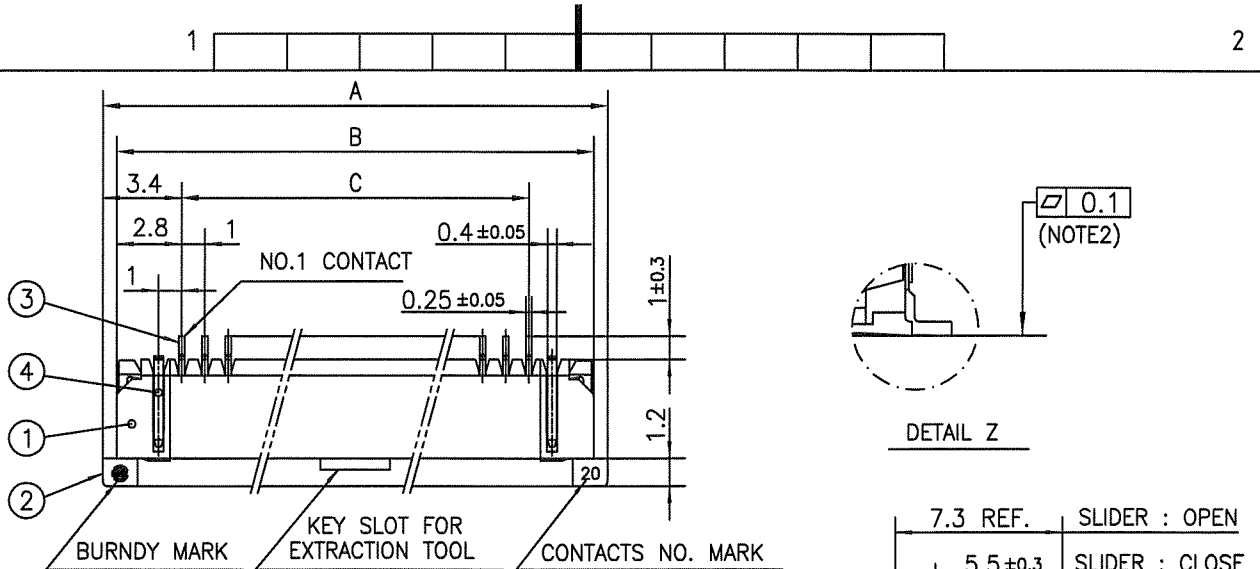
PACKAGE STYLE

LEAD FREE

NOTES

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

mat'l. code -				surface 58 / tolerance ISO 1302 4.06 ISO 1101		projection		product family 58RF		CODE JP		
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title				
C				angles	linear	scale X		CAT. NO. TABLE FOR 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-1/2ST__LF)				
				dr	H. YAMASHITA	2008-10-27	FCI		dwg no		sheet 2 of 9	
				enr	H. YAMASHITA	2008-10-27			10101159		size A4	
				chr	S. W. H. L.	2008-10-27						
				appd	S. W. H. L.	2008-10-27						
sheet index		revision sheet								Rev. C		



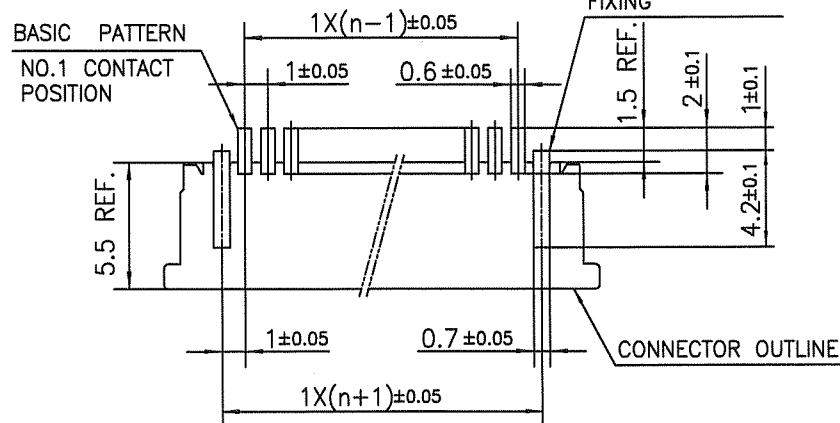
PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BROWN
2	SLIDER		1	COLOR : BLACK
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : TIN
4	MOUNTING PLATE		2	

n : NO. OF CONTACTS

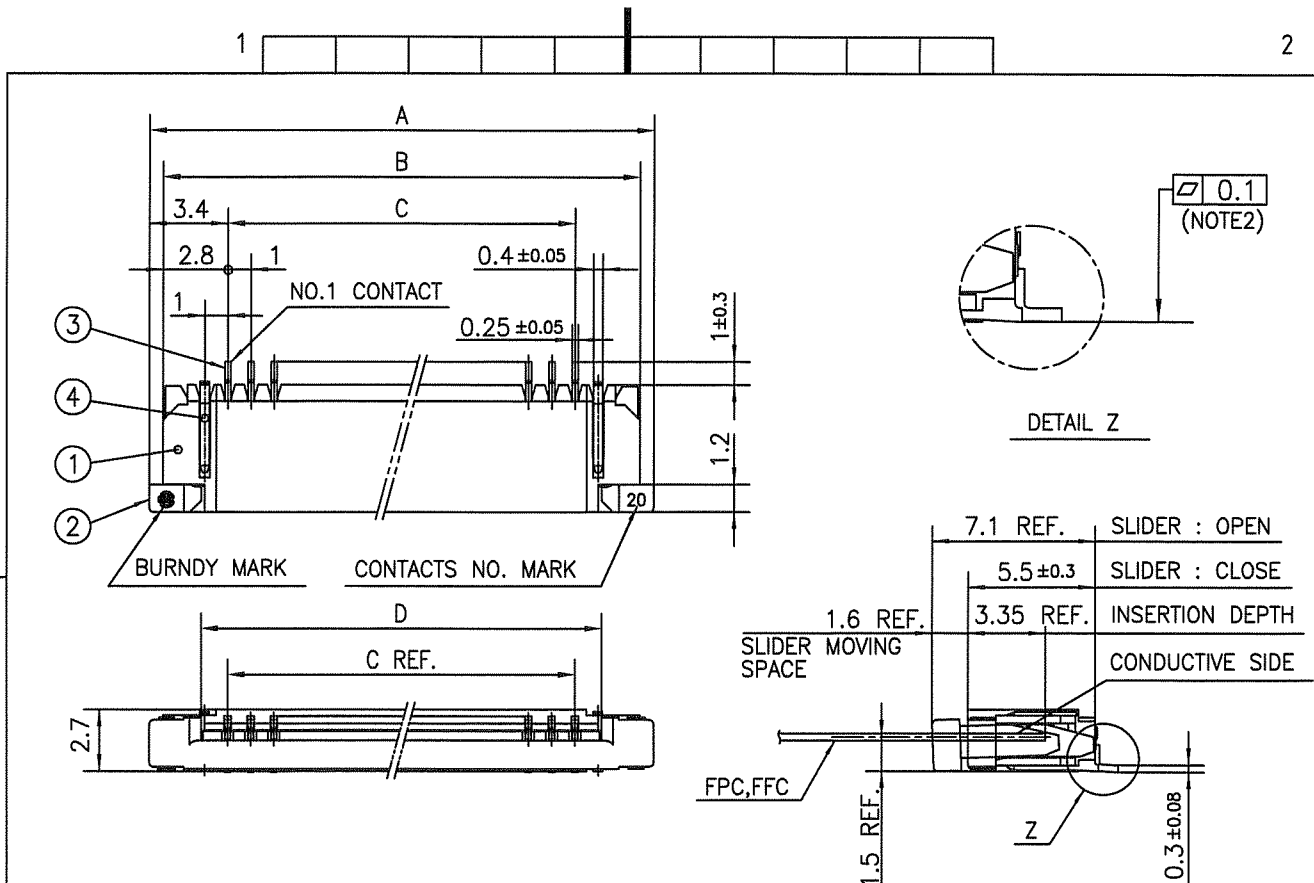
NOTES

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.

RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)



mat'l. code				surface 58 / tolerance ISO 1302 / ISO 406 / ISO 1101		projection		product family 58RF		CODE JP	
ltr				tolerances unless otherwise specified		mm		title			
ecn no				angles linear ±0.2		scale X		1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-1ST__LF)			
dr				dr		F		dwg no		sheet 3 of 9	
date				engr		F		10101159		size A4	
				chr		F		type Product Customer Drawing			
				appd		F					
sheet index		revision sheet								Rev. C	

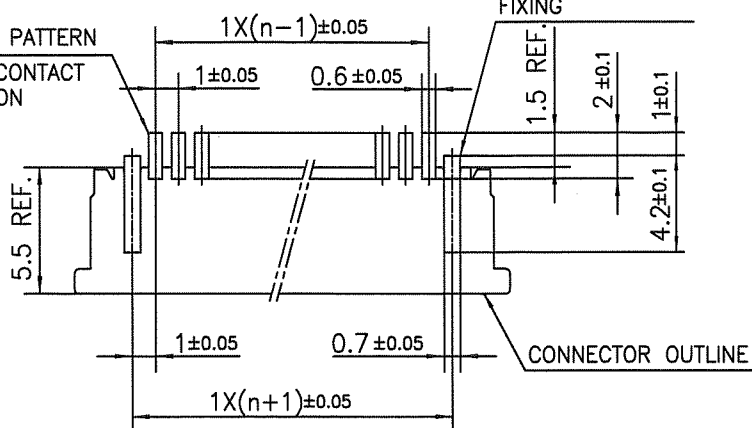


PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BROWN
2	SLIDER		1	COLOR : BLACK
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : TIN
4	MOUNTING PLATE		2	

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 COPS 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 / tolerance ISO 1302 / ISO 406 / ISO 1101		projection		product family 58RF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title			
C				angles linear ±0.2		scale X		1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-2ST__LF)			
				dr		2009-10-27		dwg no		sheet 4 of 9	
				enr		2009-10-27		10101159		size A4	
				chr		2009-10-27		type		Product Customer Drawing	
				appd		2009-10-27					
sheet index		revision sheet								Rev. C	

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

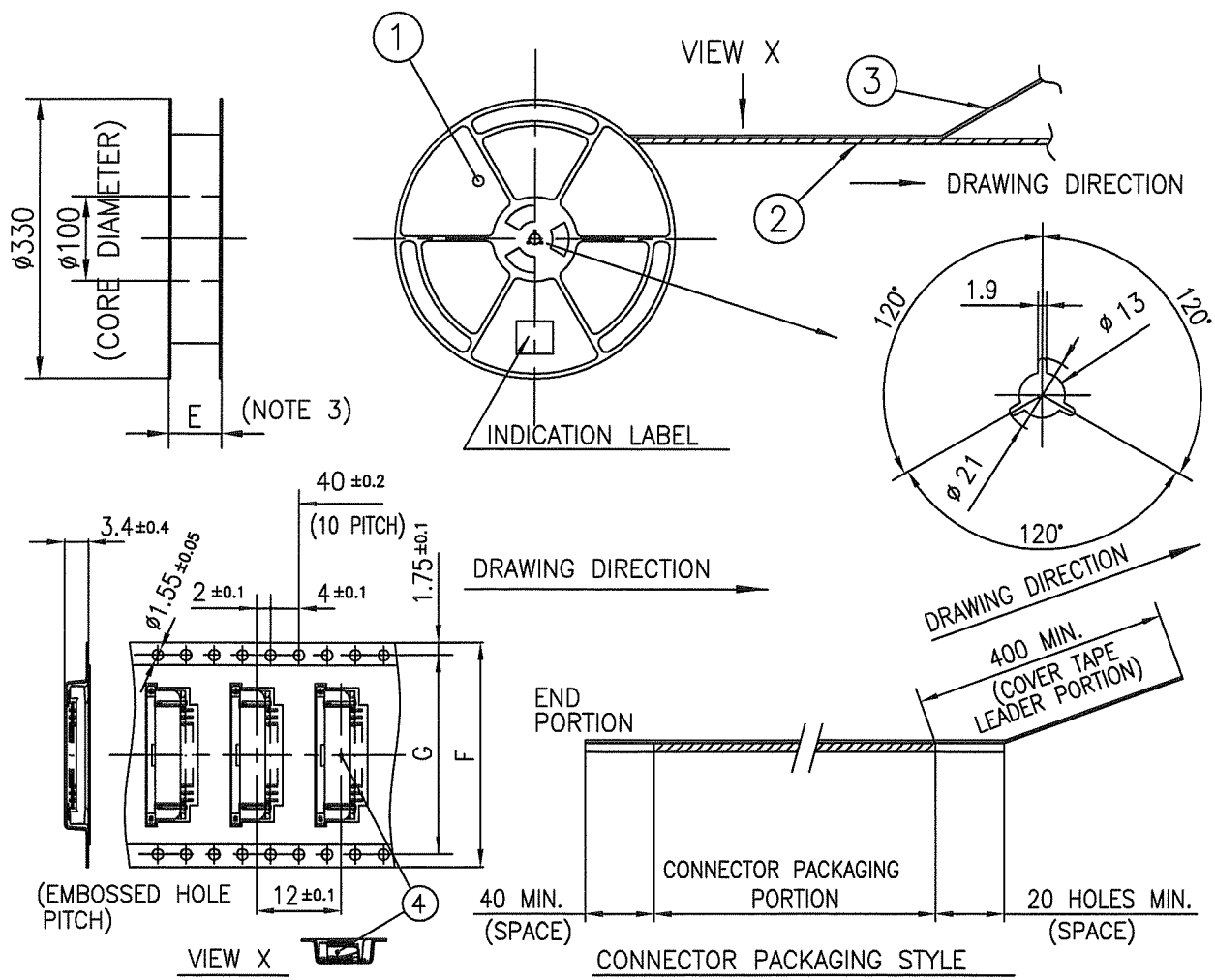
1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND COPELS WITH AUTOMATIC MOUNTING (SMT).
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
3. SEE PART DRAWINGS FOR DIMENSIONS E~G.

mat'l. code				surface 58 / tolerance ISO 1302		tolerance ISO 406 / ISO 1101		projection		product family 58RF		CODE JP	
ltr	ecr no	dr	date	tolerances unless otherwise specified				mm		title CAT NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-1/2STE9LF)			
C				angles		linear		scale X		dwg no sheet 5 of 9 size			
										10101159 A4			
				dr		2009-10-27		FCI		type Product Customer Drawing			
				enrg		2009-10-27							
				chr		2009-10-27							
				appd		2009-10-27							
sheet index	revision sheet												Rev. C

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1

2

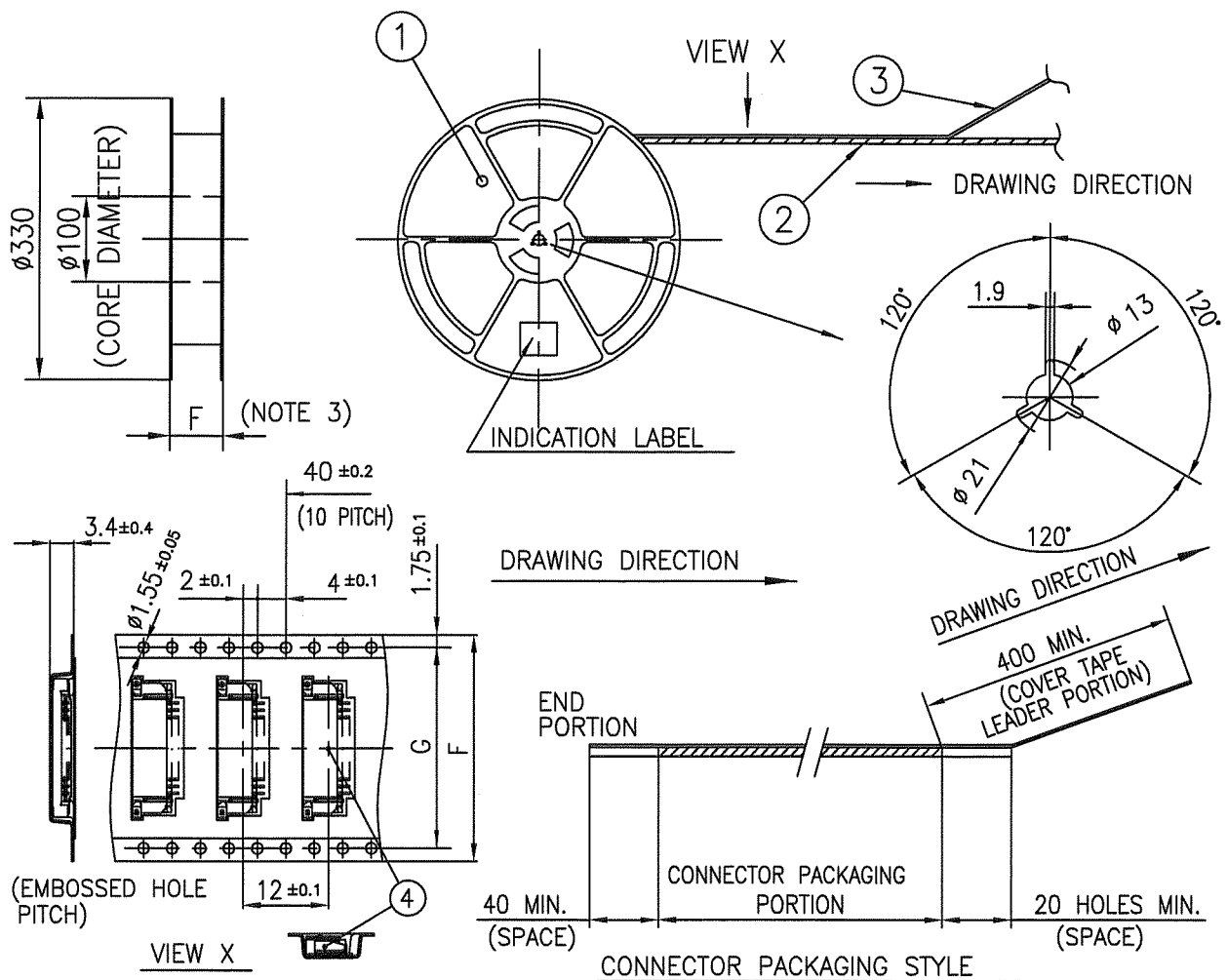


PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	POLYSTYRENE	1	COLOR : WHITE or BLACK
2	PLASTIC (EMBOSS) TAPE	_____	PET	_____	COLOR : TRANSPARENCY (CLEAR)
3	COVER	_____	POLYESTER	_____	COLOR : TRANSPARENCY (CLEAR)
4	CONNECTOR	SFW__R-1ST__LF	SEE ATTACHED DWG.	500	LOWER CONTACT TYPE

NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC/FFC AND 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.
- 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		angles linear		mm		title PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-1STE9LF)			
c						±5							
						±5°		scale X					
				dr		11/1/2007		2007-10-27		dwg no		sheet 6 of 9	
				enr		11/1/2007		2007-10-27		10101159		size A4	
				chr		S. W. H. L.		2007-10-27					
				appd		S. D. D. L.		2007-10-27		type		Product Customer Drawing	
sheet index		revision sheet										Rev. C	



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

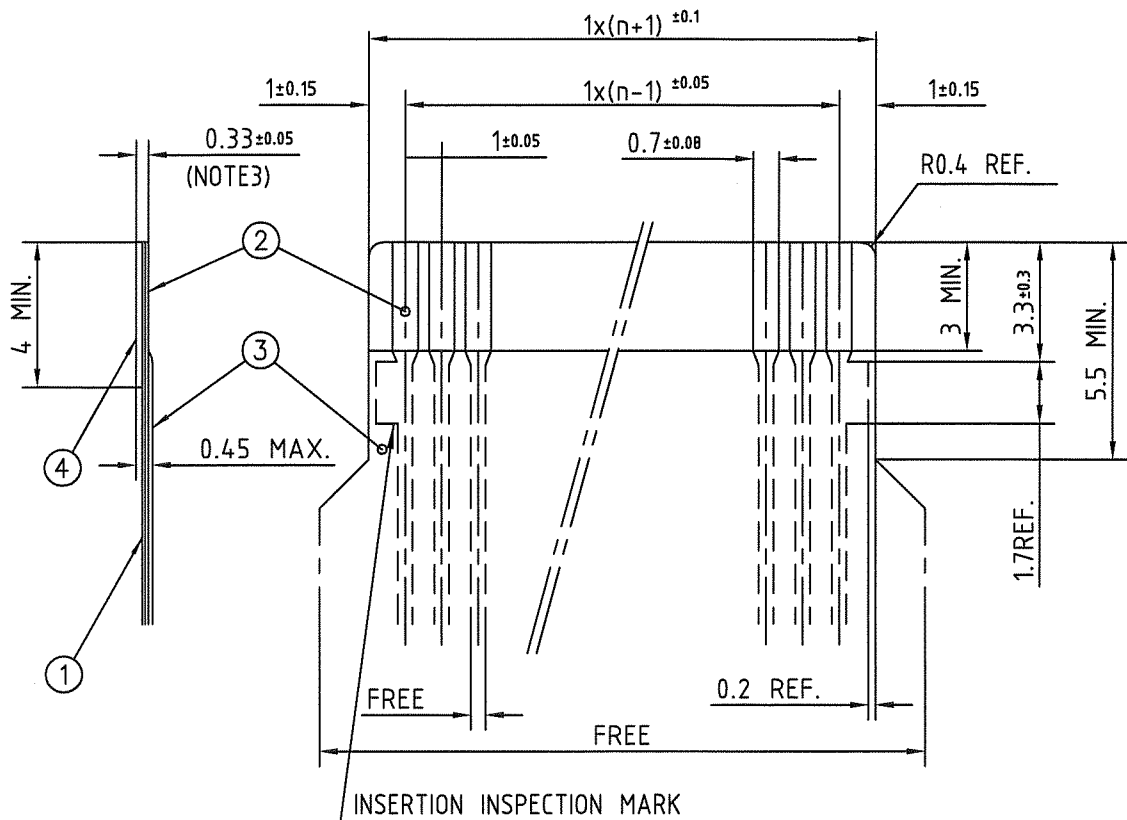
NOTES

- 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		title PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-2STE9LF)			
c										dwg no		sheet 7 of 9	
										10101159		size A4	
										type		Product Customer Drawing	
sheet index				revision sheet								Rev. c	

RECOMMENDED CABLE (FPC)

n : NO. OF CONDUCTOR



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

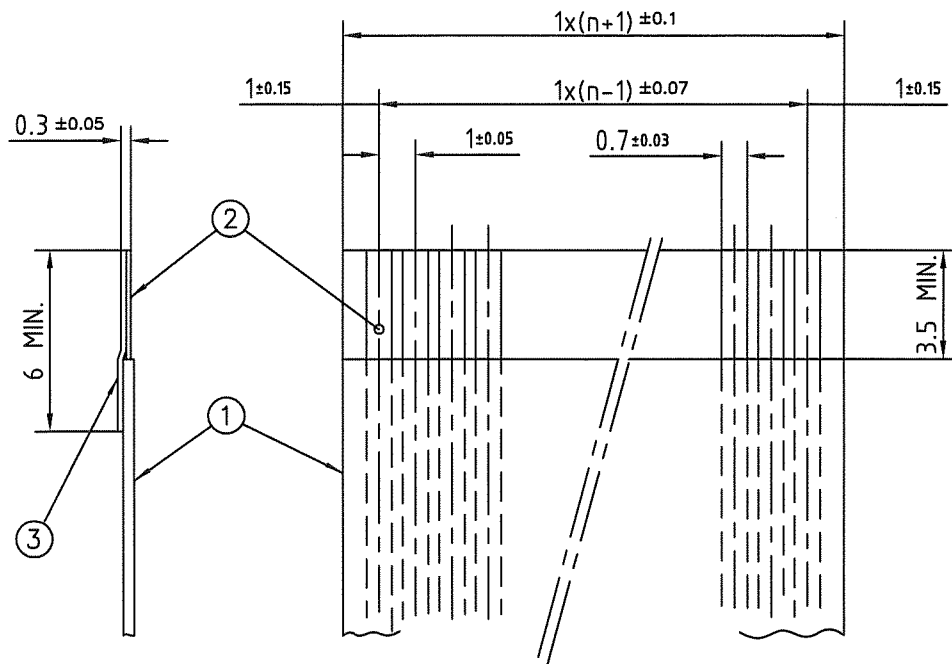
NOTES

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 58/ISO 1302		tolerance ISO 406 ISO 1101		projection		product family 58RF		CODE JP	
ltr				ecn no		dr		date		title			
c										RECOMMENDED CABLE			
										(Cat. No. SFW__R-1/2__)			
				angles		linear		mm		scale X			
				dr		M. YAMASHITA		2009-10-27		dwg no		sheet 8 of 9	
				enr		M. YAMASHITA		2009-10-27		10101159		size A4	
				chr		S. Nishida		2009-10-27					
				appd		S. Nishida		2009-10-27					
sheet index		revision sheet								type		Product Customer Drawing	
												Rev. C	

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/ISO 1302		tolerance ISO 406 ISO 1101		projection		product family 58RF		CODE JP	
ltr				ecn no		dr		date		title			
c										RECOMMENDED CABLE			
										(Cat. No. SFW__R-1/2__)			
				angles		linear		mm		scale X			
				dr		H. YAMASHITA		2009-10-27		dwg no		sheet 9 of 9	
				enr		H. YAMASHITA		2009-10-27		10101159		size A4	
				chr		S. Watanabe		2009-10-27		type		Product Customer Drawing	
				appd		P. D. Daman		2009-10-27					
sheet index		revision sheet										Rev. c	