

mat'l. code				surface 58 / tolerance ISO 1302 ✓ ISO 406 ISO 1101				projection 		product family		58SF		CODE JP		
ltr		ecn no		dr		date		title		SFW_S Documents Configuration (1mm Spacing connector)						
A		J09-0202		M.Y		2009-5-25		angles								
								linear								
								mm 								
								scale								
										dwg no		sheet 1 of 1		size		
										JSA97525				A4		
										type		Product Customer Drawing				
sheet index		revision		A										Rev A		
sheet		sheet		1												

Configuration of Documents

P/N	Documents	No.	Title	CAT.No.
SFW_S-2ST(M)E9LF	Specification	SC-SFWS03		
		JSA96516	CAT.NO.TABLE FOR 1mm SPACING SMT CONNECTOR	SFW__S-2ST__LF
	Connector dwg.	JSA96517	1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR	SFW__S-2ST__LF
		JSA96518	1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR	SFW__S-2STM__LF
	Cable dwg.	JSA97526	CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN.	SFW__S-2ST_E9LF
		JSA97527	PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN.ECTOR	SFW__S-2ST_E9LF
		JSA93340	RECOMMENDED CABLE	SFW__S-2ST__LF
		JSA93341	RECOMMENDED CABLE	SFW__S-2ST__LF
	Manual	BJM-SFWS101		
SFW_S-6ST(M)E9LF	Specification	SC-SFWS04		
		JSA96521	CAT. NO. TABLE FOR 1mm SPACING SMT CONNECTOR	SFW__S-6ST__LF
	Connector dwg.	JSA96522	1mm SPACING SURFACE MOUNT CIC CONNECTOR	SFW__S-6ST__LF
		JSA96523	1mm SPACING SURFACE MOUNT CIC CONNECTOR	SFW__S-6STM__LF
	Cable dwg.	JSA97528	CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN.	SFW__S-6ST_E9LF
		JSA97529	PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR	SFW__S-6ST_E9LF
		JSA93904	RECOMMENDED CABLE	SFW__S-6ST__LF
	Manual	BJM-SFWS102		

CAT. NO. & DIMENSIONS

NOTE3	NO. OF CONTACTS (n)	CAT. NO.	DIMENSIONS (NOTE2)		
			A ±0.2	B ±0.2	C ±0.2
	4	SFW4S-2ST__LF	10.4	5.24	3
	5	SFW5S-2ST__LF	11.4	6.24	4
	6	SFW6S-2ST__LF	12.4	7.24	5
*	7	SFW7S-2ST__LF	13.4	8.24	6
	8	SFW8S-2ST__LF	14.4	9.24	7
*	9	SFW9S-2ST__LF	15.4	10.24	8
	10	SFW10S-2ST__LF	16.4	11.24	9
	11	SFW11S-2ST__LF	17.4	12.24	10
*	12	SFW12S-2ST__LF	18.4	13.24	11
	13	SFW13S-2ST__LF	19.4	14.24	12
	14	SFW14S-2ST__LF	20.4	15.24	13
	15	SFW15S-2ST__LF	21.4	16.24	14
	16	SFW16S-2ST__LF	22.4	17.24	15
	17	SFW17S-2ST__LF	23.4	18.24	16
*	18	SFW18S-2ST__LF	24.4	19.24	17
*	19	SFW19S-2ST__LF	25.4	20.24	18
	20	SFW20S-2ST__LF	26.4	21.24	19
*	21	SFW21S-2ST__LF	27.4	22.24	20
	22	SFW22S-2ST__LF	28.4	23.24	21
	23	SFW23S-2ST__LF	29.4	24.24	22
	24	SFW24S-2ST__LF	30.4	25.24	23
*	25	SFW25S-2ST__LF	31.4	26.24	24
	26	SFW26S-2ST__LF	32.4	27.24	25
*	27	SFW27S-2ST__LF	33.4	28.24	26
	28	SFW28S-2ST__LF	34.4	29.24	27
	29	SFW29S-2ST__LF	35.4	30.24	28
	30	SFW30S-2ST__LF	36.4	31.24	29
*	31	SFW31S-2ST__LF	37.4	32.24	30
*	32	SFW32S-2ST__LF	38.4	33.24	31

CAT. NO. SFW (n) S - 2 ST - - - LF

SERIES

NO. OF CONTACTS

STRAIGHT TYPE

FOR FPC / FFC

VARIATION

STM : FOR AUTOMATIC MOUNTING (SMT)
WITH MOUNTING PLATE

ST : FOR AUTOMATIC MOUNTING (SMT)
WITHOUT MOUNTING PLATE

PACKAGE STYLE

LEAD FREE

NOTES

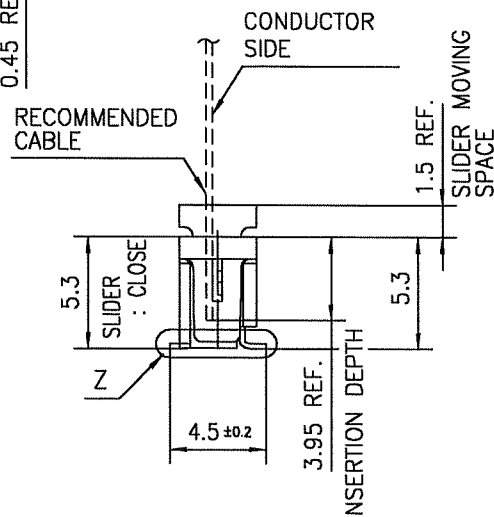
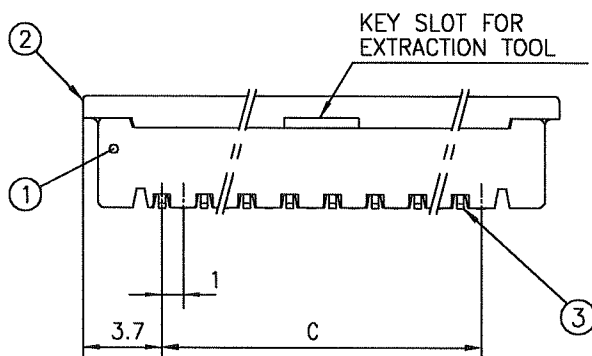
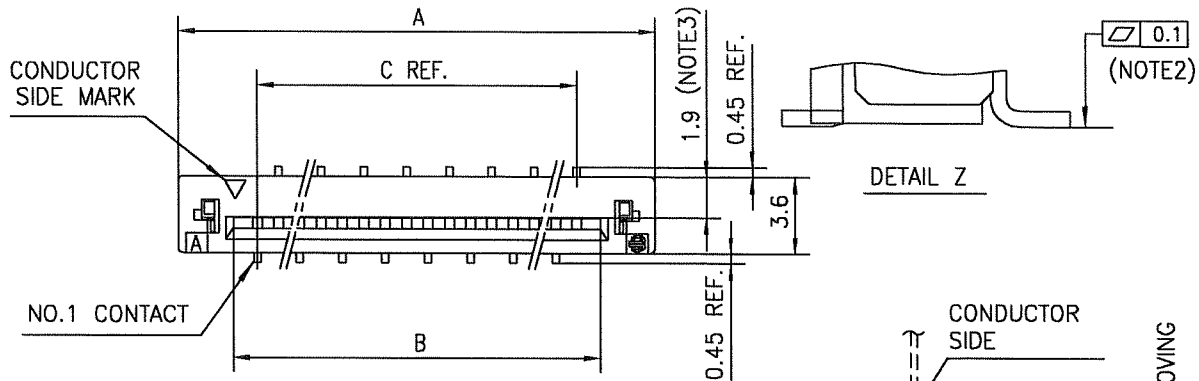
- THIS PRODUCT IS THE CONNECTOR, DESIGNED TO TERMINATE FPC/FFC AND COPE WITH AUTOMATIC MOUNTING (SMT).
- SEE PART DRAWINGS FOR DIMENSIONS A.B.C.
- PLEASE CONSULT US IN CASE OF USING PARTS WITH * MARK

mat'l. code				surface 58 / tolerance ISO 1302 ✓ ISO 406 ISO 1101		projection		product family 58SF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title CAT. NO. TABLE FOR 1mm SPACING SMT CONNECTOR (CAT.No.SFW__S-2ST__LF)			
A	J05-0377	H.T	2005-6-22	angles	linear						
B	J05-0547	H.T	2005-8-30			scale X		dwg no sheet 1 of 1 size JSA 96516 A4			
C	J06-0430	H.T	2006-10-19								
D	J07-0407	H.T	2007-8-9	dr	engr	FCI		type Product Customer Drawing			
				chr	appd						
sheet index	revision	D	1								Rev. D

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1

2



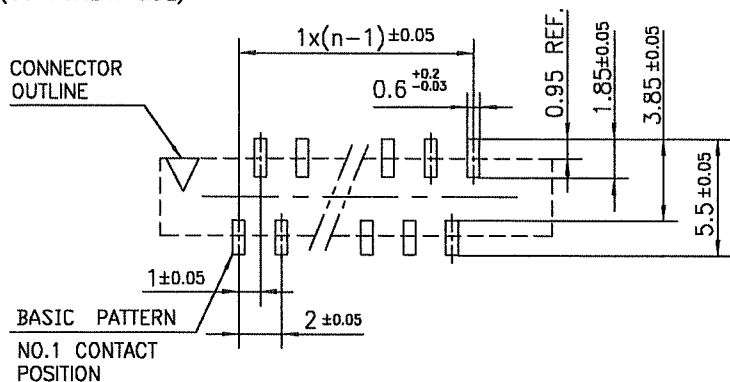
PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	GLASS FILLED THERMOPLASTIC RATED. (UL94V-0)	1	COLOR : BROWN
2	SLIDER		1	COLOR : BLACK
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : TIN Ni UNDER PLATED(LEAD FREE)

n : NO. OF CONTACTS

NOTES

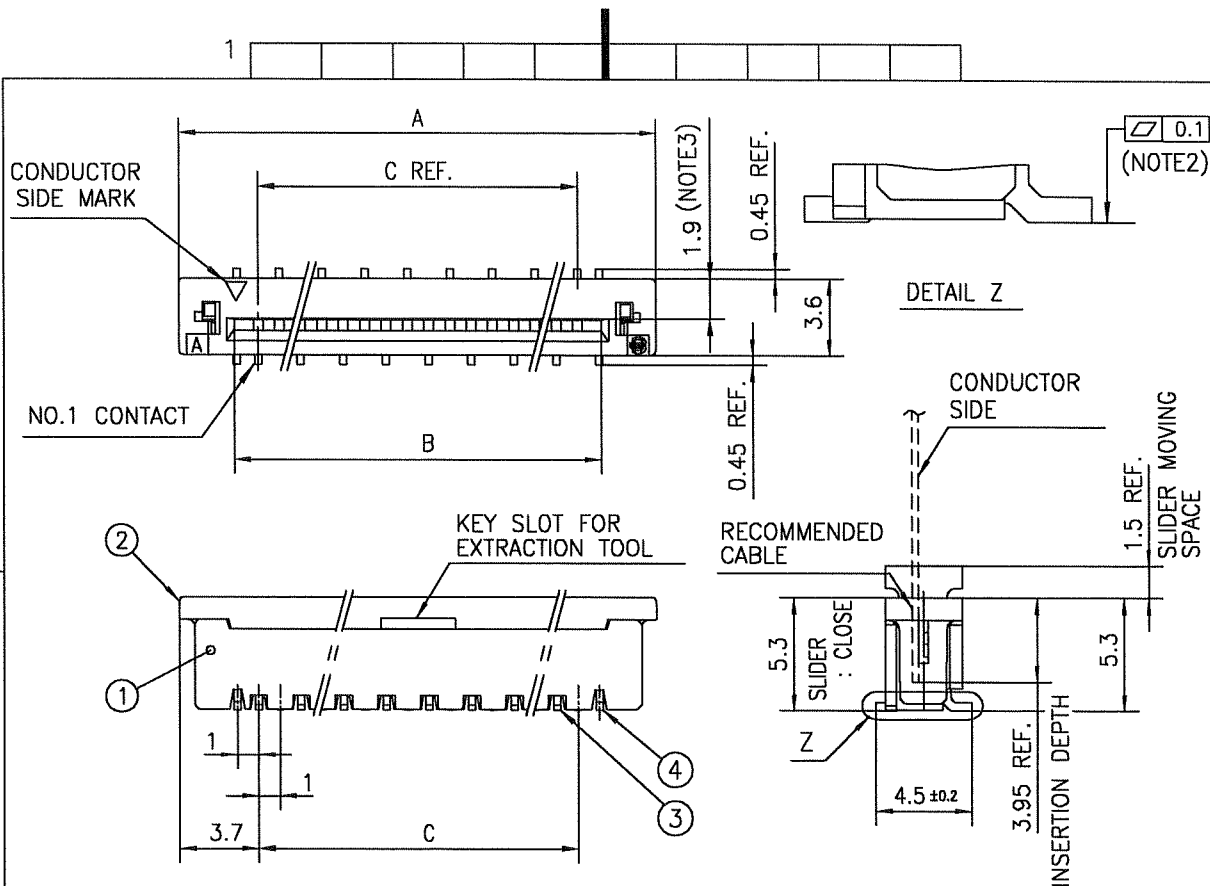
1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND CYPES WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS OF CONTACT TERMINAL MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS DIMENSION IS SPACE FOR THE NOZZLE OF MOUNTER.
4. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER 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	projection	product family	58SF	CODE
				ISO 1302	ISO 406	mm	1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR (CAT.No.SFW__S-2ST__LF)		JP
				tolerances unless otherwise specified	ISO 1101				
ltr	ecn no	dr	date	angles	linear	scale	dwg no		sheet 1 of 1
A	J05-0377	H.T	6/22/05						
B	J05-0731	H.T	10/28/05				JSA 96517		A4
C	J06-0430	H.T	10/19/06						
				dr	10/19/06	FCI	type		Product Customer Drawing
				engr	10/19/06				
				chr	10/19/06				
				appd	10/19/06				
sheet index	revision	C							Rev
	sheet	1							C

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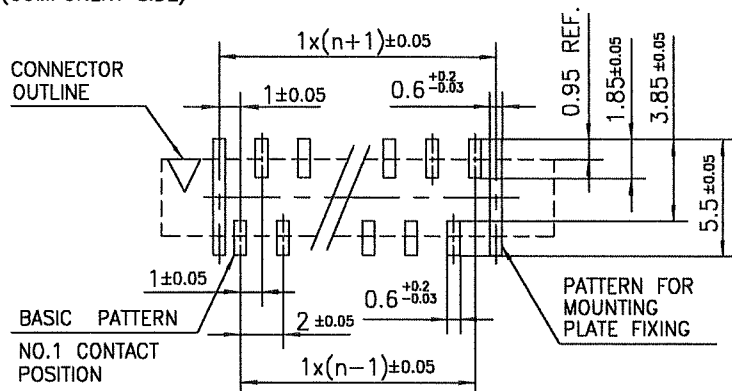
PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	GLASS FILLED THERMOPLASTIC RATED. (UL94V-0)	1	COLOR : BROWN
2	SLIDER		1	COLOR : BLACK
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : TIN Ni UNDER PLATED(LEAD FREE)
4	MOUNTING PLATE	BRASS	2	

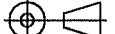
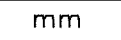
n : NO. OF CONTACTS

NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPS WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS OF CONTACT TERMINAL AND MOUNTING PLATE MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS DIMENSION IS SPACE FOR THE NOZZLE OF MOUNTER.
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 58SF				CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified					title 1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR (CAT.No.SFW__S-2STM__LF)				
A	J05-0377	H.T	6/22/05	angles	linear	±0.2							
B	J05-0731	H.T	10/28/05										
C	J06-0430	H.T	10/19/06			scale X		dwg no sheet 1 of 1 size A4					
				dr	<i>K. Shoupe</i>	10/19/06							
				enrg	<i>K. Shoupe</i>	10/19/06			JSA 96518				
				chr	<i>K. Shoupe</i>	10/19/06							
				appd	<i>J. MacLaren</i>	10/20/06							
sheet index		revision sheet		C 1									Rev. C

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CAT. NO. & DIMENSIONS

(NOTE4)	NO. OF CONTACTS (n)	CAT. NO. (NOTE2)	DIMENSIONS (NOTE3)		
			D MAX.	E ± 0.3	F ± 0.1
	4	SFW4S-2ST_E9LF	30.4	24	—
	5	SFW5S-2ST_E9LF	30.4	24	—
	6	SFW6S-2ST_E9LF	30.4	24	—
*	7	SFW7S-2ST_E9LF	30.4	24	—
	8	SFW8S-2ST_E9LF	30.4	24	—
*	9	SFW9S-2ST_E9LF	30.4	24	—
	10	SFW10S-2ST_E9LF	30.4	24	—
	11	SFW11S-2ST_E9LF	30.4	24	—
*	12	SFW12S-2ST_E9LF	38.4	32	28.4
	13	SFW13S-2ST_E9LF	38.4	32	28.4
	14	SFW14S-2ST_E9LF	38.4	32	28.4
	15	SFW15S-2ST_E9LF	38.4	32	28.4
	16	SFW16S-2ST_E9LF	50.4	44	40.4
	17	SFW17S-2ST_E9LF	50.4	44	40.4
*	18	SFW18S-2ST_E9LF	50.4	44	40.4
*	19	SFW19S-2ST_E9LF	50.4	44	40.4
	20	SFW20S-2ST_E9LF	50.4	44	40.4
*	21	SFW21S-2ST_E9LF	50.4	44	40.4
	22	SFW22S-2ST_E9LF	50.4	44	40.4
	23	SFW23S-2ST_E9LF	50.4	44	40.4
	24	SFW24S-2ST_E9LF	50.4	44	40.4
*	25	SFW25S-2ST_E9LF	50.4	44	40.4
	26	SFW26S-2ST_E9LF	50.4	44	40.4
*	27	SFW27S-2ST_E9LF	62.4	56	52.4
	28	SFW28S-2ST_E9LF	62.4	56	52.4
	29	SFW29S-2ST_E9LF	62.4	56	52.4
	30	SFW30S-2ST_E9LF	62.4	56	52.4
*	31	SFW31S-2ST_E9LF	62.4	56	52.4
*	32	SFW32S-2ST_E9LF	62.4	56	52.4

CAT. NO. SFW (n) S - 2 ST_ _ _ LF

SERIES

NO. OF CONTACTS

STRAIGHT TYPE

FOR FPC / FFC

VARIATION

STM:FOR AUTOMATIC MOUNTING (SMT)
WITH MOUNTING PLATE

ST:FOR AUTOMATIC MOUNTING (SMT)
WITHOUT MOUNTING PLATE

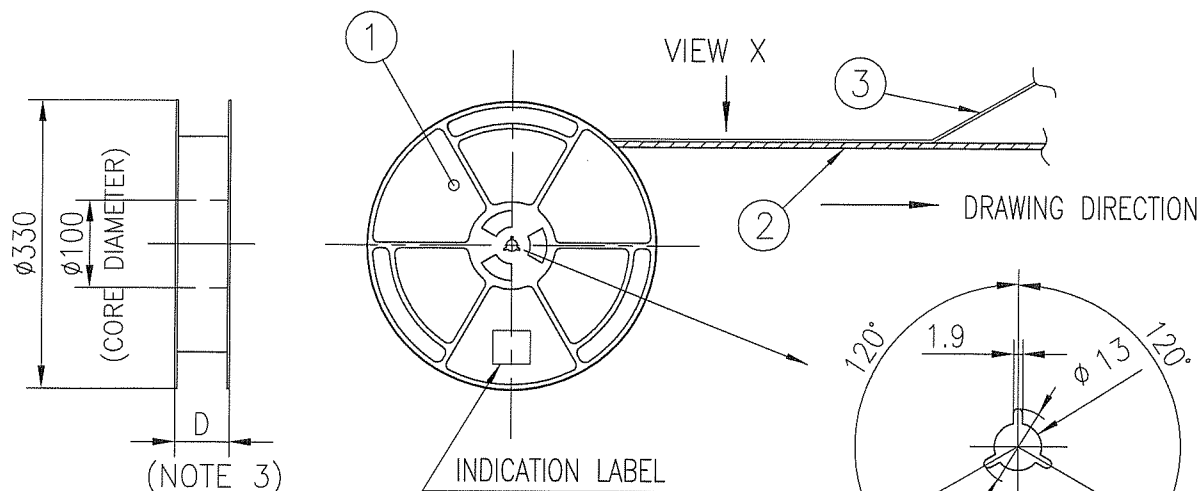
PACKAGE STYLE

LEAD FREE

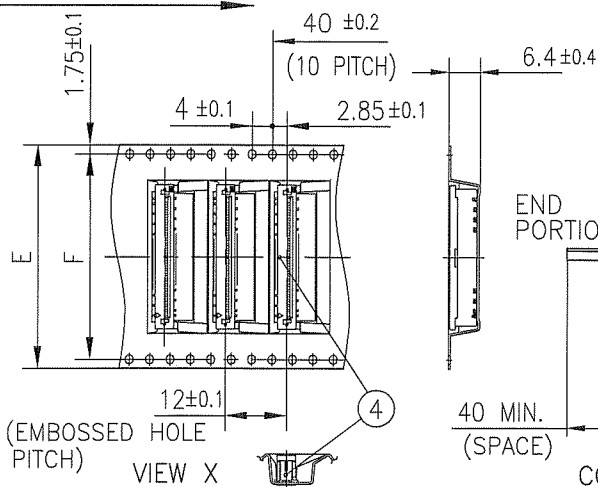
NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COTES WITH AUTOMATIC MOUNTING (SMT).
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
3. SEE PART DRAWINGS FOR DIMENSIONS D~F.
4. PLEASE CONSULT US IN CASE OF USING PARTS WITH * MARK.

mat'l. code				surface 58/ tolerance ISO 1302 406 ISO 1101		projection		product family 58SF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title			
A	J09-0202	M.Y	2009-5-25			scale X		CAT NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN. (CAT.No.SFW__S-2ST_E9LF)			
				angles	linear			dwg no sheet 1 of 1 size			
				dr	H.YAMASHITA	2009-5-25		JSA 97526 A4			
				engr	H.YAMASHITA	2009-5-25					
				chr	S. Nishida	2009-5-25					
				appd	S. Nishida	2009-5-25					
sheet index		revision sheet	A 1					type Product Customer Drawing		Rev. A	



DRAWING DIRECTION

END
PORTIONCONNECTOR PACKAGING
PORTION20 HOLES MIN.
(SPACE)

CONNECTOR PACKAGING STYLE

PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	—	POLYSTYRENE	1	COLOR : WHITE or BLACK
2	PLASTIC (EMBOSSSED) TAPE	—	PET	—	COLOR : TRANSPARENCY
3	COVER	—	POLYESTER	—	COLOR : TRANSPARENCY
4	CONNECTOR	SFW__S-2ST_LF	SEE ATTACHED DWG.	500	—

NOTES

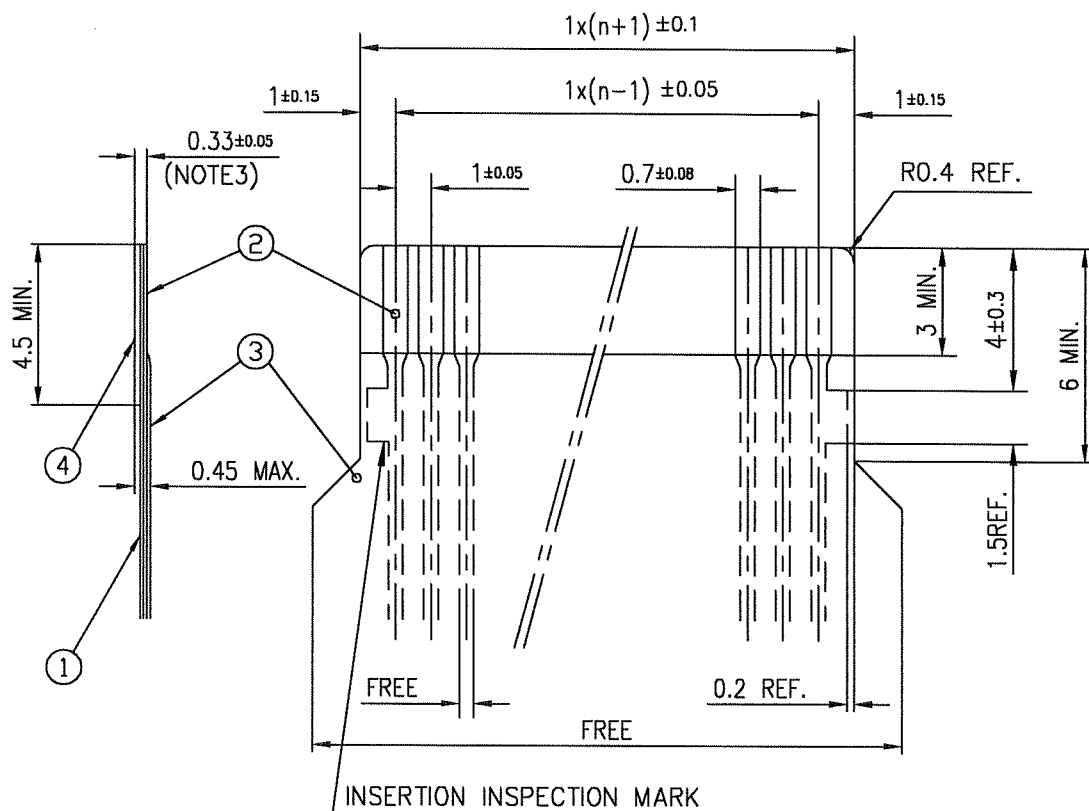
- THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC/FFC AND CYPES WITH AUTOMATIC MOUNTING (SMT).
- SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSSSED) TAPE AND REEL.
- F DIMENSION IS PORTION OF THE CORE.

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family	58SF	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm	title PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (Cat. No. SFW__S-2ST_E9LF)		
A	J09-0202	M.Y	2009-5-25	angles	linear				
				±5°		scale	dwg no		
				dr	2009-5-25	FCI	sheet 1 of 1		
				engr	2009-5-25				
				chr	2009-5-25		JSA 97527		
				appd	2009-5-25				
sheet index	revision	A					type Product Customer Drawing		
	sheet	1							Rev. A

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RECOMMENDED CABLE (FPC)

n : NO. OF CONDUCTORS



PT. NO.	DESCRIPTION	MATERIAL	THICKNESS (μm)
1	BASE FILM	POLYIMIDE OR POLYESTER OR EQUIVALENT	25
2	CONDUCTOR	COPPER FOIL(PLATING : SOLDER 1μm MIN.)	35
3	OVERLAY	POLYIMIDE OR POLYESTER OR EQUIVALENT	—
4	SUPPORTING TAPE	POLYESTER OR POLYIMIDE OR EQUIVALENT	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 406 / ISO 1101		projection		product family 58SF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title			
AA	J04-0333	H.T	Oct.13,'04					RECOMMENDED CABLE			
AB	J06-0430	H.T	10/19/06					(CAT.No.SFW__S-2ST__)			
				angles linear		scale X		dwg no sheet 1 of 1 size			
						FCI		JSA 93340 A4			
				dr 10/19/06				type Product Customer Drawing			
				enr 10/19/06							
				chr 10/19/06							
				appd 10/20/06							
sheet index		revision	AB							Rev. AB	
		sheet	1								

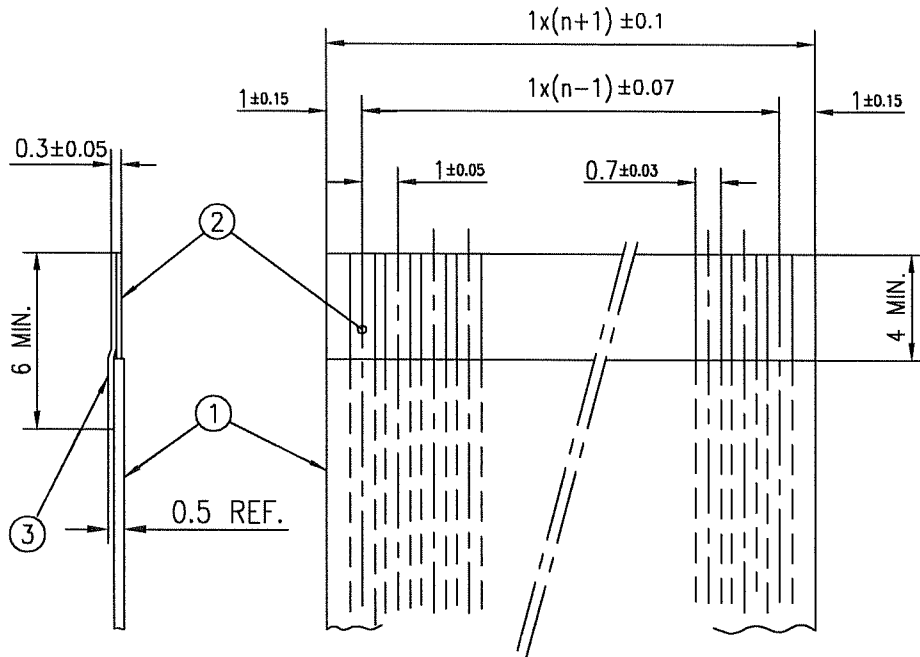
form: A4

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RECOMMENDED CABLE (FFC)

n : NO. OF CONDUCTORS



PT. NO.	DESCRIPTION	MATERIAL	NOTE
1	INSULATOR	FLAME RESISTING POLYESTER OR EQUIVALENT	_____
2	CONDUCTOR	COPPER FOIL	PLATING: TIN OR SOLDER 1µm MIN.
3	SUPPORTING TAPE	FLAME RESISTING POLYESTER OR EQUIVALENT	_____

NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.

mat'l. code				surface 5B / tolerance ISO 406 ISO 1101		projection		product family 58SF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm		title			
AA	J04-0333	H.T	06/13/04	angles linear		scale X		RECOMMENDED CABLE (CAT.No.SFW__S-2ST__)			
AB	J06-0430	H.T	10/19/06			FCI		dwg no		sheet 1 of 1	size
				dr				JSA 93341			A4
				engr				type		Product Customer Drawing	
				chr							
				appd							
sheet index	revision	AB								Rev. AB	

form: A4

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2