

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-3/4ST__	9.8	8.6	3.0	3.92
5	SFW5R-3/4ST__	10.8	9.6	4.0	4.92
6	SFW6R-3/4ST__	11.8	10.6	5.0	5.92
7	SFW7R-3/4ST__	12.8	11.6	6.0	6.92
8	SFW8R-3/4ST__	13.8	12.6	7.0	7.92
9	SFW9R-3/4ST__	14.8	13.6	8.0	8.92
10	SFW10R-3/4ST__	15.8	14.6	9.0	9.92
11	SFW11R-3/4ST__	16.8	15.6	10.0	10.92
12	SFW12R-3/4ST__	17.8	16.6	11.0	11.92
13	SFW13R-3/4ST__	18.8	17.6	12.0	12.92
14	SFW14R-3/4ST__	19.8	18.6	13.0	13.92
15	SFW15R-3/4ST__	20.8	19.6	14.0	14.92
16	SFW16R-3/4ST__	21.8	20.6	15.0	15.92
17	SFW17R-3/4ST__	22.8	21.6	16.0	16.92
18	SFW18R-3/4ST__	23.8	22.6	17.0	17.92
19	SFW19R-3/4ST__	24.8	23.6	18.0	18.92
20	SFW20R-3/4ST__	25.8	24.6	19.0	19.92
21	SFW21R-3/4ST__	26.8	25.6	20.0	20.92
22	SFW22R-3/4ST__	27.8	26.6	21.0	21.92
23	SFW23R-3/4ST__	28.8	27.6	22.0	22.92
24	SFW24R-3/4ST__	29.8	28.6	23.0	23.92
25	SFW25R-3/4ST__	30.8	29.6	24.0	24.92
26	SFW26R-3/4ST__	31.8	30.6	25.0	25.92
27	SFW27R-3/4ST__	32.8	31.6	26.0	26.92
28	SFW28R-3/4ST__	33.8	32.6	27.0	27.92
29	SFW29R-3/4ST__	34.8	33.6	28.0	28.92
30	SFW30R-3/4ST__	35.8	34.6	29.0	29.92

CAT. NO.

SFW (n) R - 3 ST

SERIES NAME

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR FPC/FFC,
WITH CABLE LOCK MECHANISM

CONTACT DIRECTION

3. LOWER CONTACT TYPE

4. UPPER CONTACT TYPE

FOR AUTOMATIC MOUNTING
(SMT)

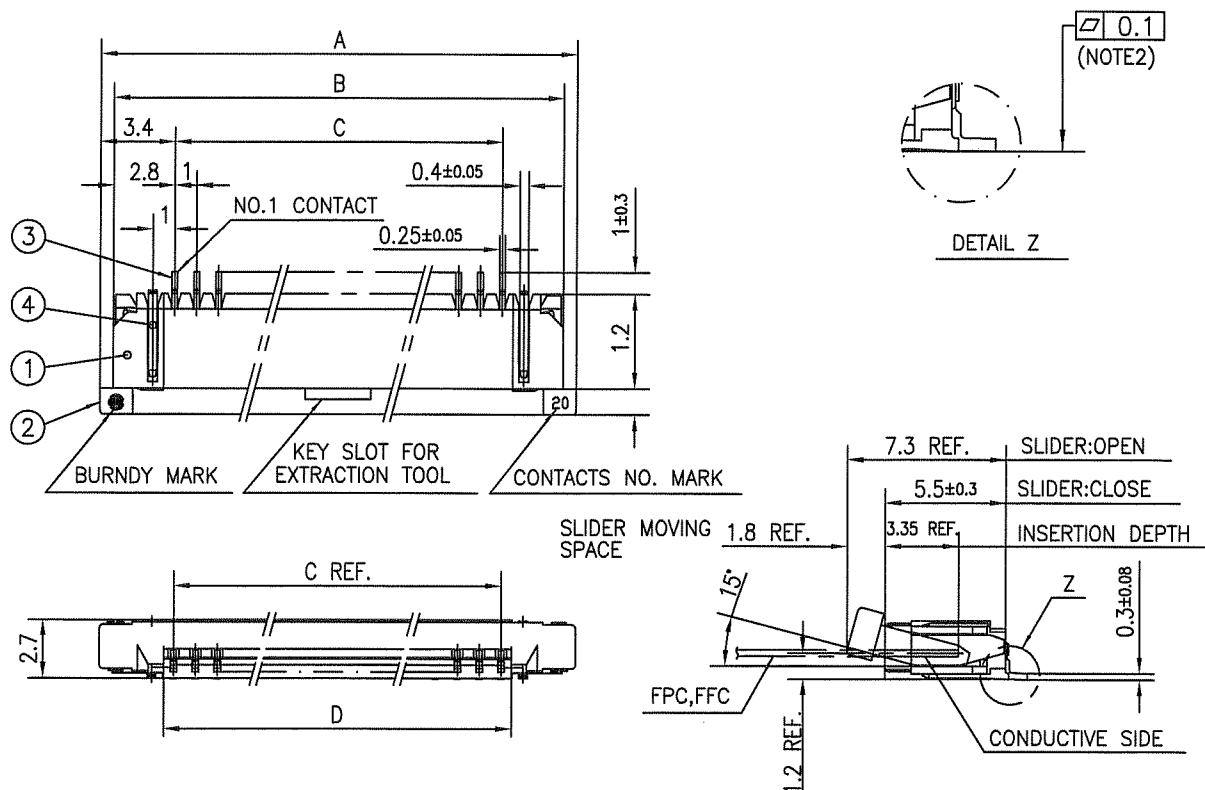
PACKAGE STYLE

NOTES

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

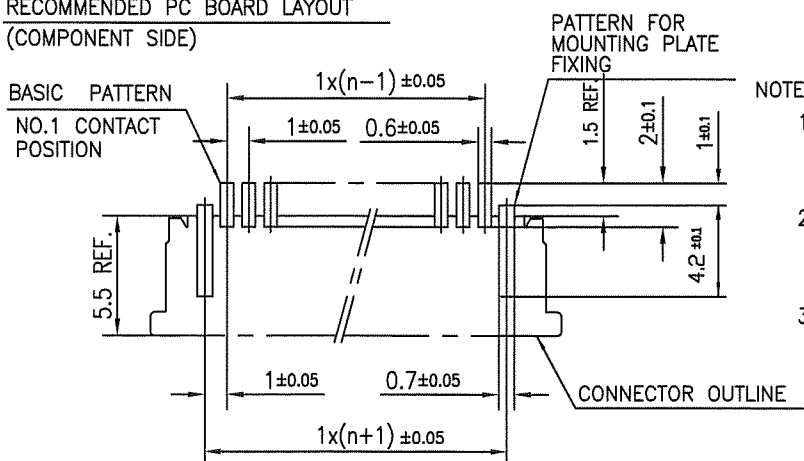
mat'l. code				surface 58 / tolerance ISO 1302 ☒ ISO 406 ☒ ISO 1101		projection 		product family 58RF		CODE JP		
ltr	ecn no	dr	date	tolerances, unless otherwise specified				title CAT NO. TABLE FOR 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-3/4ST__)				
A	J06-0398	H.T	9/26/'06	angles	linear	mm						
B	J09-0363	M.Y	2009-10-8			scale X						
				dr	M.YAMASHITA	2009-10-8			dwg no		sheet 1 of 1	size
				enr	M.YAMASHITA	2009-10-8			JSA 93206		A4	
				chr	S. WILKIN	2009-10-8						
				appd	S. Chidam	2009-10-8						
sheet index	revision	B	1									Rev. B

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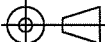
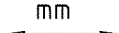
PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR:BLACK
2	SLIDER		1	COLOR:BROWN
3	CONTACT	PHOSPHOR BRONZE	n	PLATING:TIN ALLOY
4	MOUNTING PLATE		2	

n : NO. OF CONTACTS

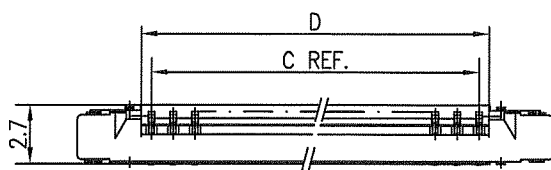
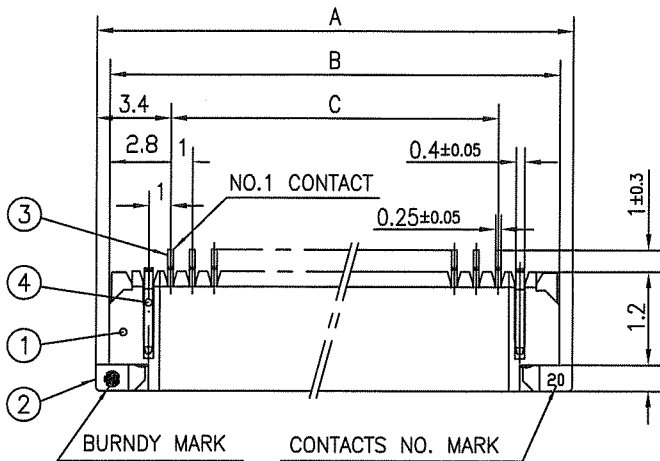
RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE)

NOTES

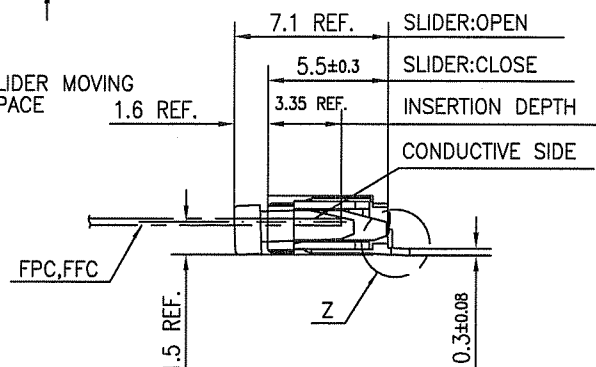
1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC/FFC AND COPES WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS FOR CONTACT TERMINAL HOUSING MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR WITH CABLE LOCK MECHANISM.

mat'l. code				surface 58 ☒ ISO 1302		tolerance ☒ ISO 406 ☒ ISO 1101		projection 		product family 58RF				CODE JP						
ltr	ecn no	dr	date	tolerances unless otherwise specified							title 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-3ST__)									
AA	J04-0180	H.T	7/2/'04	angles		linear ±0.2														
AB	J06-0398	H.T	9/26/'06							scale $\propto$	dwg no sheet 1 of 1 size JSA 93207 A4									
AC	J09-0363	M.Y	2009-10-8																	
				dr	MYAMASHITA		2009-10-8													
				engr	MYAMASHITA		2009-10-8													
				chr	S. Witala		2009-10-8													
				appd	S. Anderson		2009-10-8													
sheet index		revision		AC												Rev. AC				
		sheet		1																

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SLIDER MOVING SPACE

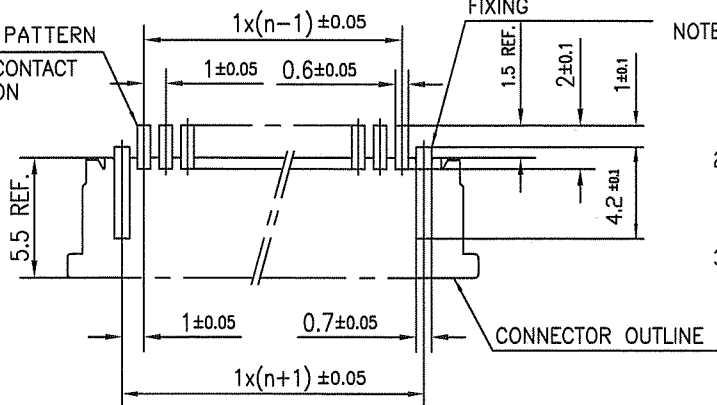


PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR:BLACK
2	SLIDER		1	COLOR:BROWN
3	CONTACT	PHOSPHOR BRONZE	n	PLATING:TIN ALLOY
4	MOUNTING PLATE		2	

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 WITH CABLE LOCK MECHANISM.

mat'l. code				surface 58	tolerance ISO 1302	projection	product family 58RF	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified	ISO 406	mm	title 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-4ST__)	
AA	J04-0180	H.T	7/2/'04	ISO 1101	ISO 1101			
AB	J06-0398	H.T	9/26/'06	angles	linear	scale X	dwg no	sheet 1 of 1
AC	J09-0363	M.Y	2009-10-8				JSA 93208	size A4
				dr	K.YAMASHITA	2009-10-8	type Product Customer Drawing	
				enr	K.YAMASHITA	2009-10-8		
				chr	S. W. H.	2009-10-8		
				appd	S. Chelam	2009-10-8		
sheet index	revision	AC	1					Rev. AC

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1

2

CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO. (NOTE2)	DIMENSIONS (NOTE3)		
		E ± 5	F ± 0.3	G ± 0.1
4	SFW4R-3/4STE1	20.4	16	—
5	SFW5R-3/4STE1	28.4	24	—
6	SFW6R-3/4STE1	28.4	24	—
7	SFW7R-3/4STE1	28.4	24	—
8	SFW8R-3/4STE1	28.4	24	—
9	SFW9R-3/4STE1	28.4	24	—
10	SFW10R-3/4STE1	28.4	24	—
11	SFW11R-3/4STE1	28.4	24	—
12	SFW12R-3/4STE1	28.4	24	—
13	SFW13R-3/4STE1	36.4	32	28.4
14	SFW14R-3/4STE1	36.4	32	28.4
15	SFW15R-3/4STE1	36.4	32	28.4
16	SFW16R-3/4STE1	36.4	32	28.4
17	SFW17R-3/4STE1	48.4	44	40.4
18	SFW18R-3/4STE1	48.4	44	40.4
19	SFW19R-3/4STE1	48.4	44	40.4
20	SFW20R-3/4STE1	48.4	44	40.4
21	SFW21R-3/4STE1	48.4	44	40.4
22	SFW22R-3/4STE1	48.4	44	40.4
23	SFW23R-3/4STE1	48.4	44	40.4
24	SFW24R-3/4STE1	48.4	44	40.4
25	SFW25R-3/4STE1	48.4	44	40.4
26	SFW26R-3/4STE1	48.4	44	40.4
27	SFW27R-3/4STE1	48.4	44	40.4
28	SFW28R-3/4STE1	60.4	56	52.4
29	SFW29R-3/4STE1	60.4	56	52.4
30	SFW30R-3/4STE1	60.4	56	52.4

CAT. NO.

SFW (n) R - 3 ST E1

SERIES NAME

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR FPC/FFC,
WITH CABLE LOCK MECHANISM

CONTACT DIRECTION

3. LOWER CONTACT TYPE
4. UPPER CONTACT TYPEFOR AUTOMATIC MOUNTING
(SMT)

TAPE PACKAGING

NOTES

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

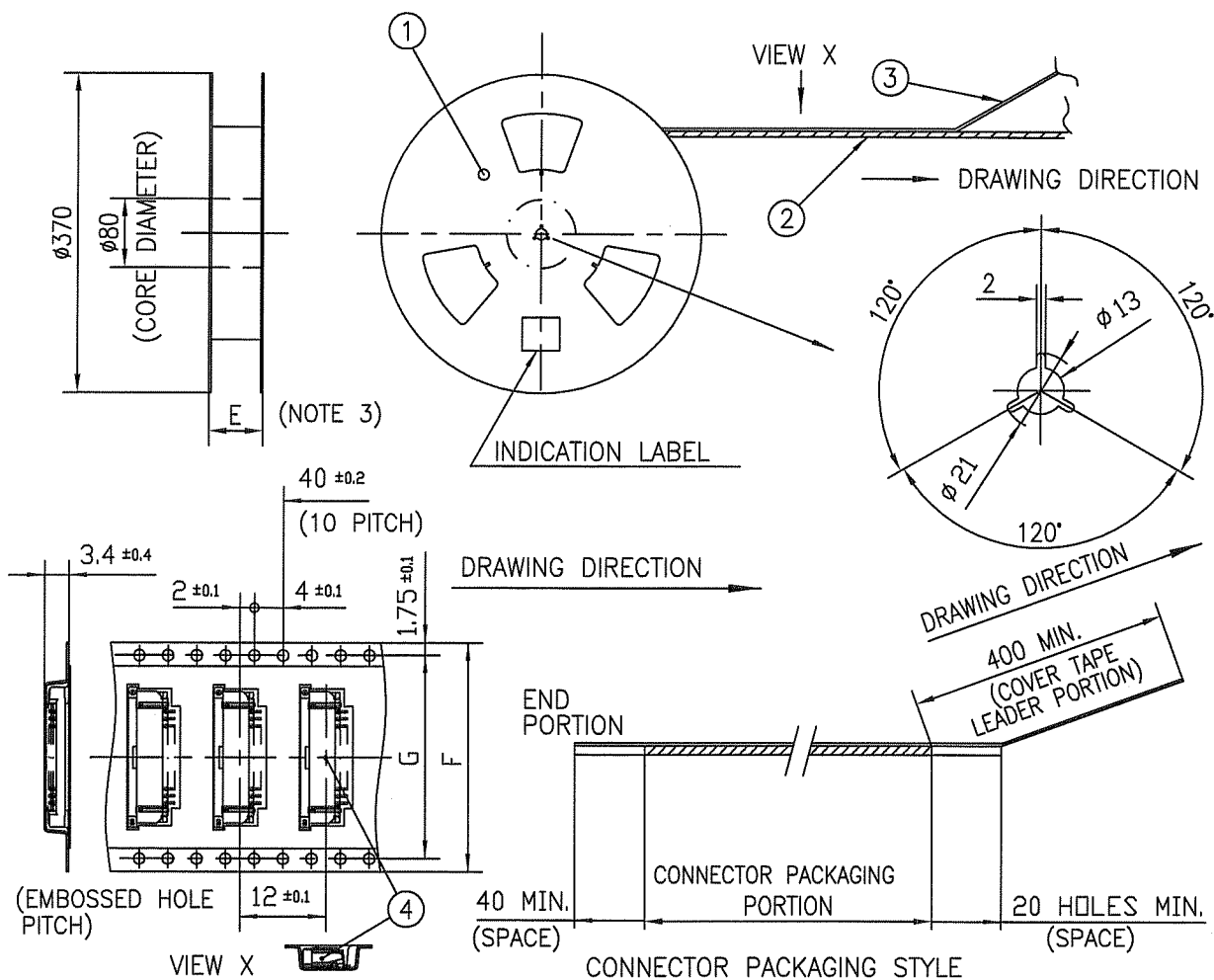
mat'l. code				surface 58 / tolerance ISO 1302 ✓ / ISO 406 / ISO 1101		projection 		product family 58RF		CODE JP		
ltr	ecn no	dr	date	tolerances, unless otherwise specified				title CAT NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-3/4STE1)				
A	J06-0398	H.T	9/26/'06	angles	linear	mm						
B	J09-0363	M.Y	2009-10-8			scale X		dwg no JSA 93209 sheet 1 of 1 size A4				
				dr	M.YAHARA	2009-10-8						
				enr	M.YAHARA	2009-10-8			type Product Customer Drawing			
				chr	S. Nishida	2009-10-8						
				appd	S. Chudawa	2009-10-8			Rev. B			
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1

2



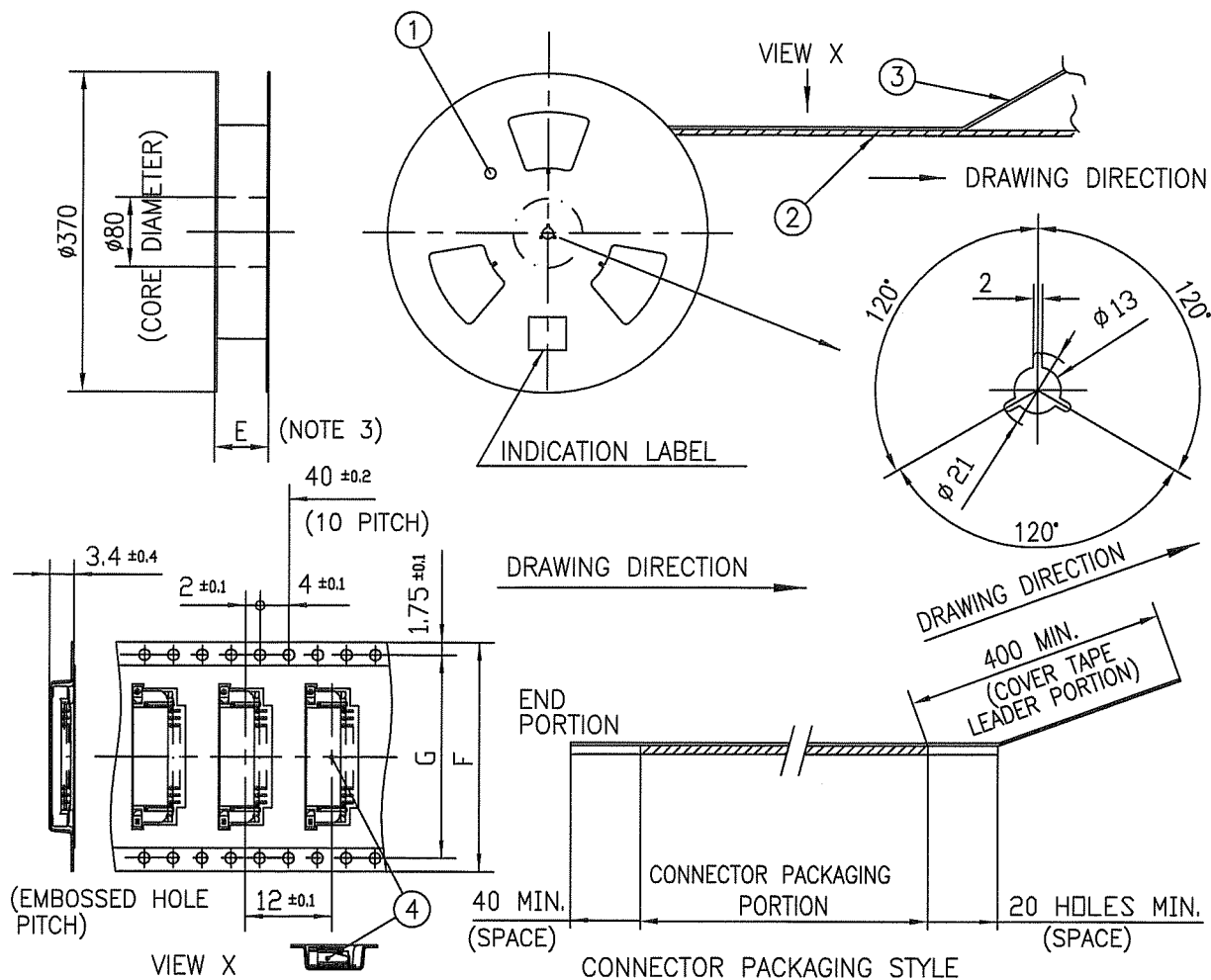
PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	CARDBOARD	1	COLOR:WHITE
2	PLASTIC (EMBOSS) TAPE	_____	PET	_____	COLOR:TRANSPARENCY
3	COVER	_____	POLYESTER	_____	COLOR:TRANSPARENCY
4	SURFLOK CONNECTOR	SFW__R-3ST__	SEE ATTACHED DWG.	2000	LOWER CONTACT TYPE

NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR WITH CABLE LOCK MECHANISM 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		mm		title			
1 _____ M.K 7/3/'96				angles linear ±5		mm		PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-3STE1)			
A J06-0398 H.T 9/26/'06				±5'		scale X		dwg no sheet 1 of 1 size			
B J09-0363 M.Y 2009-10-8								JSA 93210 A4			
				dr M. YAMASHITA 2009-10-8		FCJ		type Product Customer Drawing			
				enr M. YAMASHITA 2009-10-8							
				chr S. WILK 2009-10-8							
				appd P. Chelamuri 2009-10-8							
sheet index		revision sheet		B 1						Rev. B	

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PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	CARDBOARD	1	COLOR:WHITE
2	PLASTIC (EMBOSS) TAPE	_____	PET	_____	COLOR:TRANSPARENCY
3	COVER	_____	POLYESTER	_____	COLOR:TRANSPARENCY
4	SURFLOK CONNECTOR	SFW__R-4ST__	SEE ATTACHED DWG.	2000	UPPER CONTACT TYPE

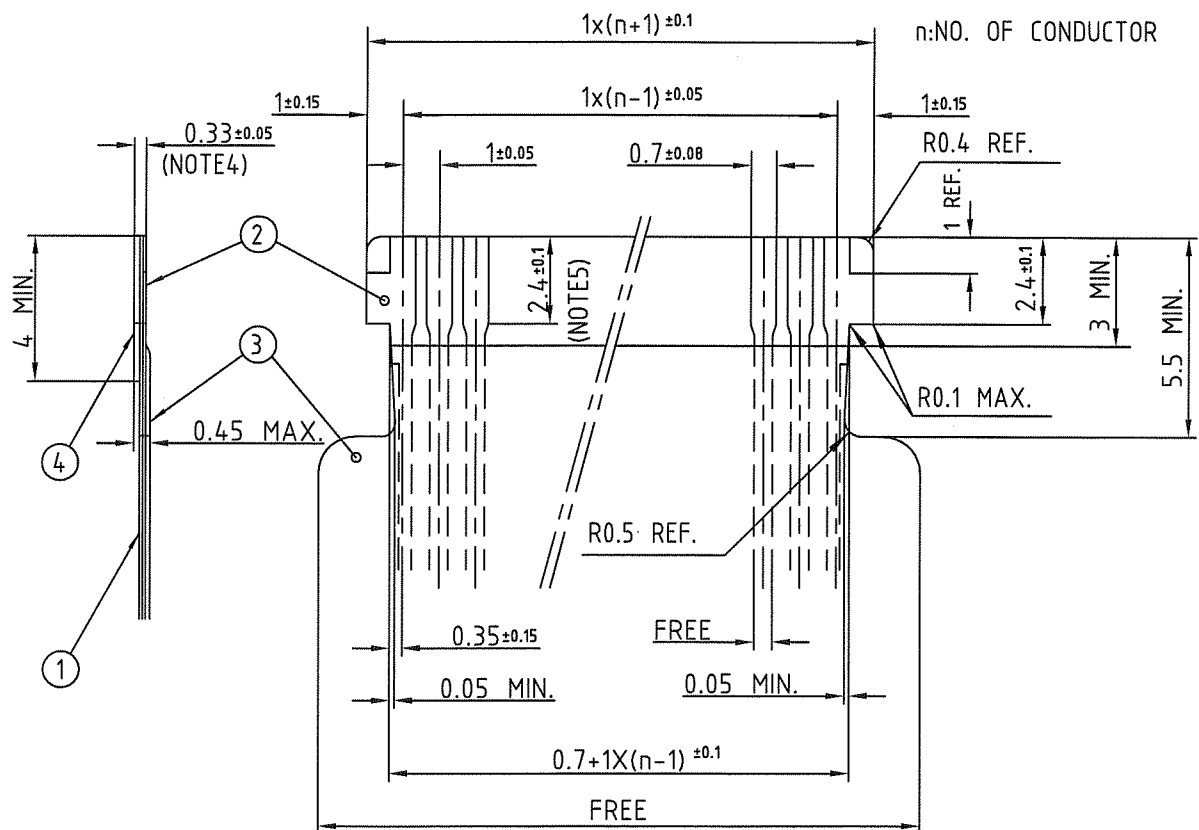
NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR WITH CABLE LOCK MECHANISM 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		mm	title PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (Cat. No. SFW__R-4STE1)		
1	---	M.K	7/3/'96	angles	linear				
A	J06-0398	H.T	9/26/'06	±5°	±5	scale	dwg no		
B	J09-0363	M.Y	2009-10-8	±5°	±5	scale			
				dr	H.YAMASITA	2009-10-8	sheet 1 of 1		size
				enr	H.YAMASITA	2009-10-8	JSA 93211		A4
				chr	S. W. H. /	2009-10-8	type		Rev. B
				appd	S. Chelant	2009-10-8			
sheet index	revision	B							
	sheet	1							

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RECOMMENDED CABLE (FPC)

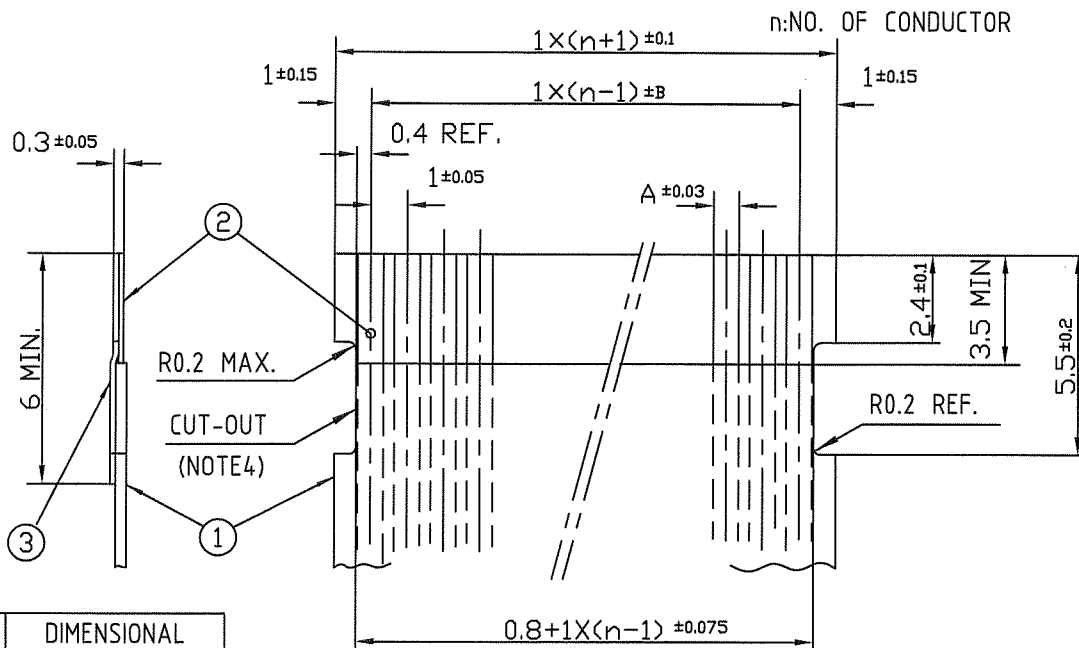


PT. NO.	PARTS NAME	MATERIAL	THICKNESS (um)
1	BASE FILM	POLYIMIDE OR POLYESTER OR EQUAL	25
2	CONDUCTOR	COPPER FOIL(PLATING : SOLDER 1um MIN.)	35
3	OVERLAY	POLYIMIDE OR POLYESTER OR EQUAL	—
4	SUPPORTING TAPE	POLYESTER OR POLYIMIDE OR EQUAL	188

- NOTES
1. THIS DRAWING INDICATES THE FPC USED THE CONNECTOR WITH CABLE LOCK MECHANISM.
 2. NO BURR AT EACH PORTION.
 3. NO PEELING IN COMMON USE.
 4. TOTAL THICKNESS LIMIT OF EACH MATERIAL (INCLUDING ADHESIVE AGENT) IS SPECIFIED.
 5. THIS DIMENSION INDICATES THE RANGE FOR 0.7 ± 0.08 CONDUCTOR WIDTH.

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			
1	—	—	9/10/'98					RECOMMENDED CABLE			
AA	J05-0055	H.T	2/4/'05	angles linear				(Cat. No. SFW_R-3/4_)			
AB	J06-0398	H.T	9/26/'06			scale $\times$					
AC	J09-0363	M.Y	2009-10-8	dr	K.YAMASHITA	2009-10-8		dwg no		sheet 1 of 1	size
				enr	K.YAMASHITA	2009-10-8		JSA 93212			A4
				chr	S. W. H. L.	2009-10-8					
				appd	S. A. L. L. M.	2009-10-8					
sheet index	revision	AC									Rev. AC
	sheet	1									

RECOMMENDED CABLE (FFC)



KIND OF FFC (NOTES5)	DIMENSIONAL TOLERANCE	
	A	B
1	0.7	0.1
2	0.6	0.07

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
- THIS DRAWING INDICATES THE FFC USED THE CONNECTOR WITH CABLE LOCK MECHANISM.
 - NO BURR AT EACH PORTION.
 - NO PEELING IN COMMON USE.
 - THERE IS A POSSIBILITY THAT THE CAT-OUT CROSSES THE CONDUCTOR BECAUSE OF DIMENSIONAL TOLERANCE.
 - EITHER KIND1 OR KIND2 OF FFC CAN ACCEPT DIMENSIONAL TOLERANCE a AND b.

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			
AA	J05-0055	H.T	2/4/'05			mm		RECOMMENDED CABLE			
AB	J06-0398	H.T	9/26/'06	angles linear				(Cat. No. SFW_R-3/4_)			
AC	J09-0363	M.Y	2009-10-8			scale X					
				dr	M. YAMASHITA		2009-10-8		dwg no		sheet 1 of 1
				enr	M. YAMASHITA		2009-10-8		JSA 93213		size A4
				chr	S. K. K.		2009-10-8		type		Product Customer Drawing
				appd	S. Anderson		2009-10-8				
sheet index	revision sheet	AC	1								