

CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO.	DIMENSIONS (NOTE2)			
		A ± 0.2	B ± 0.15	C ± 0.15	D ± 0.1
4	SFR 4R-1ST__LF	8.6	7.7	2.4	4.2
6	SFR 6R-1ST__LF	10.2	9.3	4.0	5.8
8	SFR 8R-1ST__LF	11.8	10.9	5.6	7.4
10	SFR10R-1ST__LF	13.4	12.5	7.2	9.0
12	SFR12R-1ST__LF	15.0	14.1	8.8	10.6
14	SFR14R-1ST__LF	16.6	15.7	10.4	12.2
16	SFR16R-1ST__LF	18.2	17.3	12.0	13.8
18	SFR18R-1ST__LF	19.8	18.9	13.6	15.4
20	SFR20R-1ST__LF	21.4	20.5	15.2	17.0
22	SFR22R-1ST__LF	23.0	22.1	16.8	18.6
24	SFR24R-1ST__LF	24.6	23.7	18.4	20.2
26	SFR26R-1ST__LF	26.2	25.3	20.0	21.8
28	SFR28R-1ST__LF	27.8	26.9	21.6	23.4
30	SFR30R-1ST__LF	29.4	28.5	23.2	25.0

CAT. NO.

SFR (n) R - 1 ST __ LF

SERIES NAME

NO. OF CONTACTS

RIGHT ANGLE TYPE

USE FOR FPC/FFC

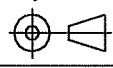
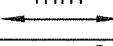
FOR AUTOMATIC MOUNTING (SMT)

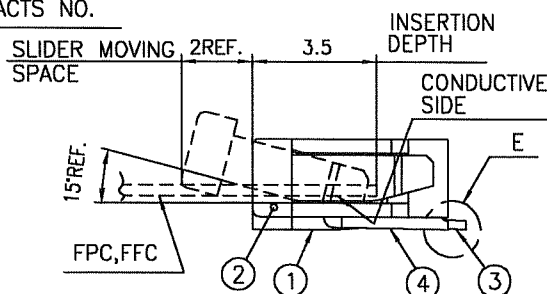
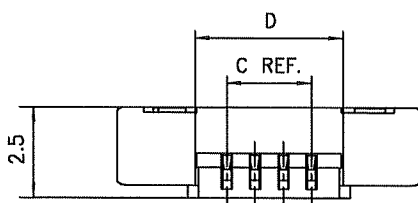
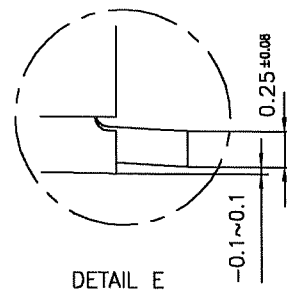
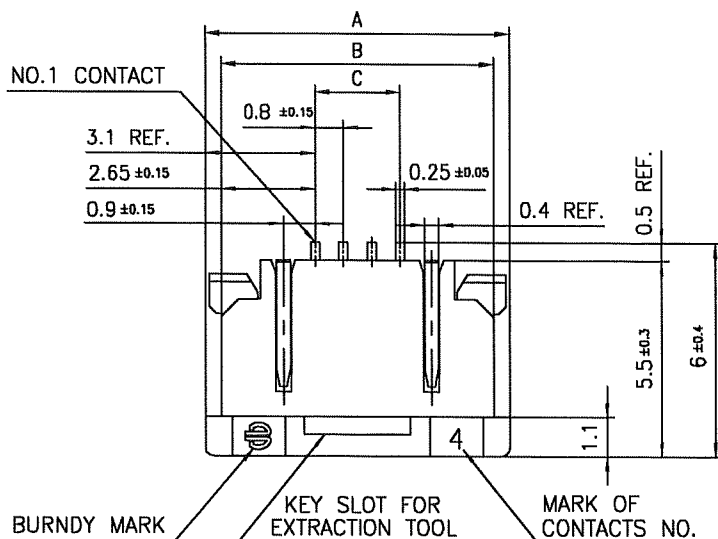
PACKAGE STYLE

LEAD FREE

NOTES

- THIS IS SMT CONNECTOR FOR AUTOMATIC MOUNTING.
- SEE PART DRAWINGS FOR DIMENSIONS A~D.

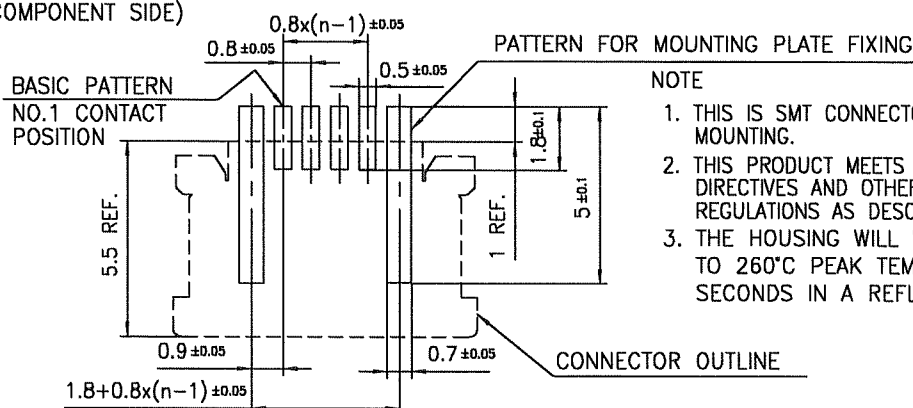
mat'l. code				surface ☒ ISO 1302 ☒ ISO 406 ☐ ISO 1101		tolerance ☒ ISO 406 ☐ ISO 1101		projection 		product family 58BF				CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified								title CAT NO. TABLE FOR 0.8mm SPACING CONNECTOR (Cat. No. SFR__R-1ST__LF)			
A	J05-0280	H.T	5/12/05	angles		linear		mm		 dwg no JSA 96438 sheet 1 of 1 size A4 type Product Customer Drawing					
B	J06-0485	H.T	11/20/06					scale $\times$							
				dr		11/20/06									
				engr		11/20/06									
				chr		11/20/06									
				appd		11/20/06									
sheet index	revision B	sheet 1												Rev. B	



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

n : NO. OF CONTACTS

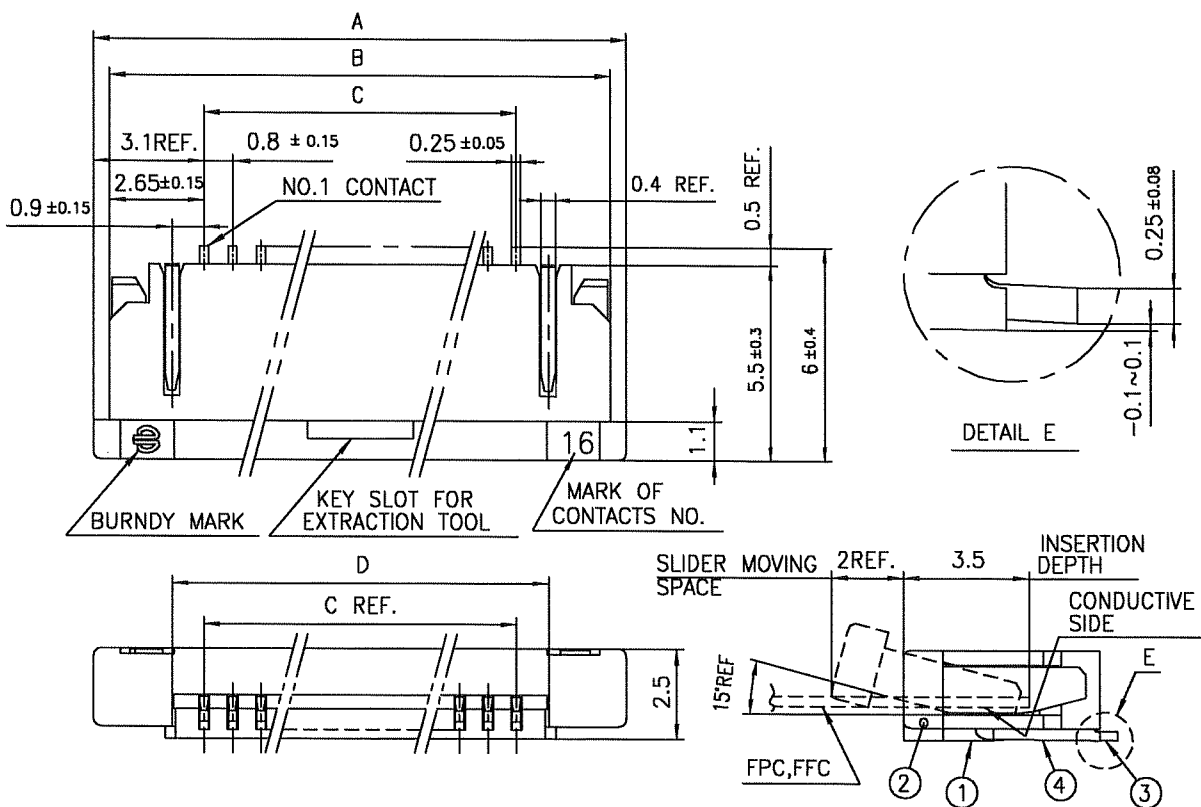
RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)



NOTE

1. THIS IS SMT CONNECTOR FOR AUTOMATIC MOUNTING.
2. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
3. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.

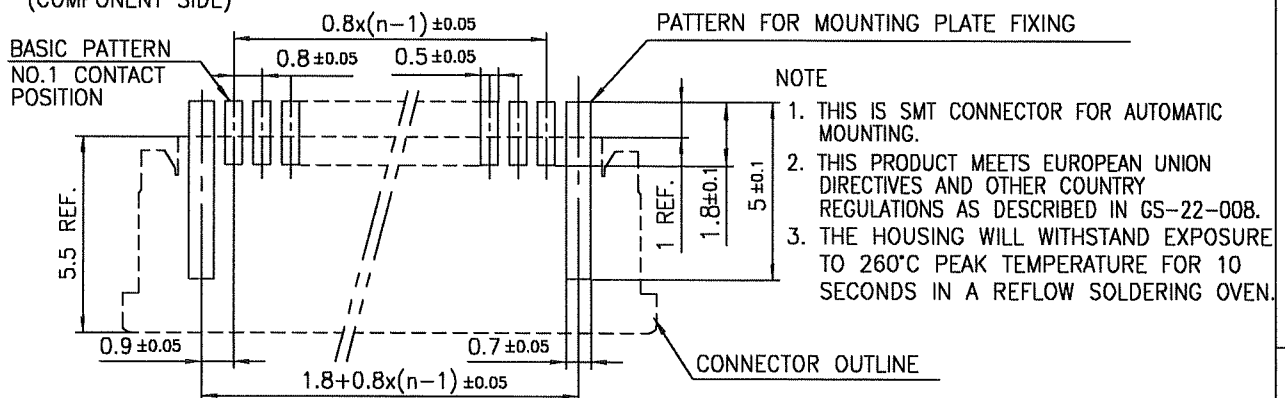
mat'l. code				surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection 	product family 58BF	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm 	title 0.8mm SPACING CONNECTOR (Cat. No. SFR4R-1ST__LF)	
A	J05-0280	H.T	5/12/05	angles	linear			
B	J05-0730	H.T	10/28/05				dwg no JSA 96439	
C	J06-0485	H.T	11/20/06			scale $\propto$		
				dr	<i>11/20/06</i>		sheet 1 of 1 size A4	
				enr	<i>11/20/06</i>			
				chr	<i>11/20/06</i>			
				appd	<i>11/21/06</i>			
sheet index	revision	C					type Product Customer Drawing	
	sheet	1						



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

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)



mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection mm		product family 58BF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified				mm		title 0.8mm SPACING CONNECTOR (Cat. No. SFR__R-1ST__LF)			
A	J05-0280	H.T	5/12/05	angles linear				scale X		dwg no JSA 96440			
B	J05-0730	H.T	10/28/05										
C	J06-0485	H.T	11/20/06	dr engr chr appd				11/20/06 11/20/06 11/20/06 11/20/06		sheet 1 of 1 size A4		type Product Customer Drawing	
sheet index		revision sheet		C 1								Rev. C	

CAT. NO. & DIMENSIONS

NO. OF CONTACTS (n)	CAT. NO. (NOTE2)	DIMENSIONS (NOTE3)			
		E ±5	F ±0.3	G ±0.1	H ±0.4
4	SFR 4R-1STE1LF	22.4	16	—	3.35
6	SFR 6R-1STE1LF	22.4	16	—	3.35
8	SFR 8R-1STE1LF	30.4	24	—	3.45
10	SFR10R-1STE1LF	30.4	24	—	3.45
12	SFR12R-1STE1LF	30.4	24	—	3.45
14	SFR14R-1STE1LF	30.4	24	—	3.45
16	SFR16R-1STE1LF	30.4	24	—	3.45
18	SFR18R-1STE1LF	38.4	32	28.4	3.45
20	SFR20R-1STE1LF	38.4	32	28.4	3.45
22	SFR22R-1STE1LF	50.4	44	40.4	3.55
24	SFR24R-1STE1LF	50.4	44	40.4	3.55
26	SFR26R-1STE1LF	50.4	44	40.4	3.55
28	SFR28R-1STE1LF	50.4	44	40.4	3.55
30	SFR30R-1STE1LF	50.4	44	40.4	3.55

CAT. NO.

SFR (n) R - 1ST E1 LF

SERIES NAME

NO. OF CONTACTS

RIGHT ANGLE TYPE

USE FOR FPC/FFC

FOR AUTOMATIC MOUNTING (SMT)

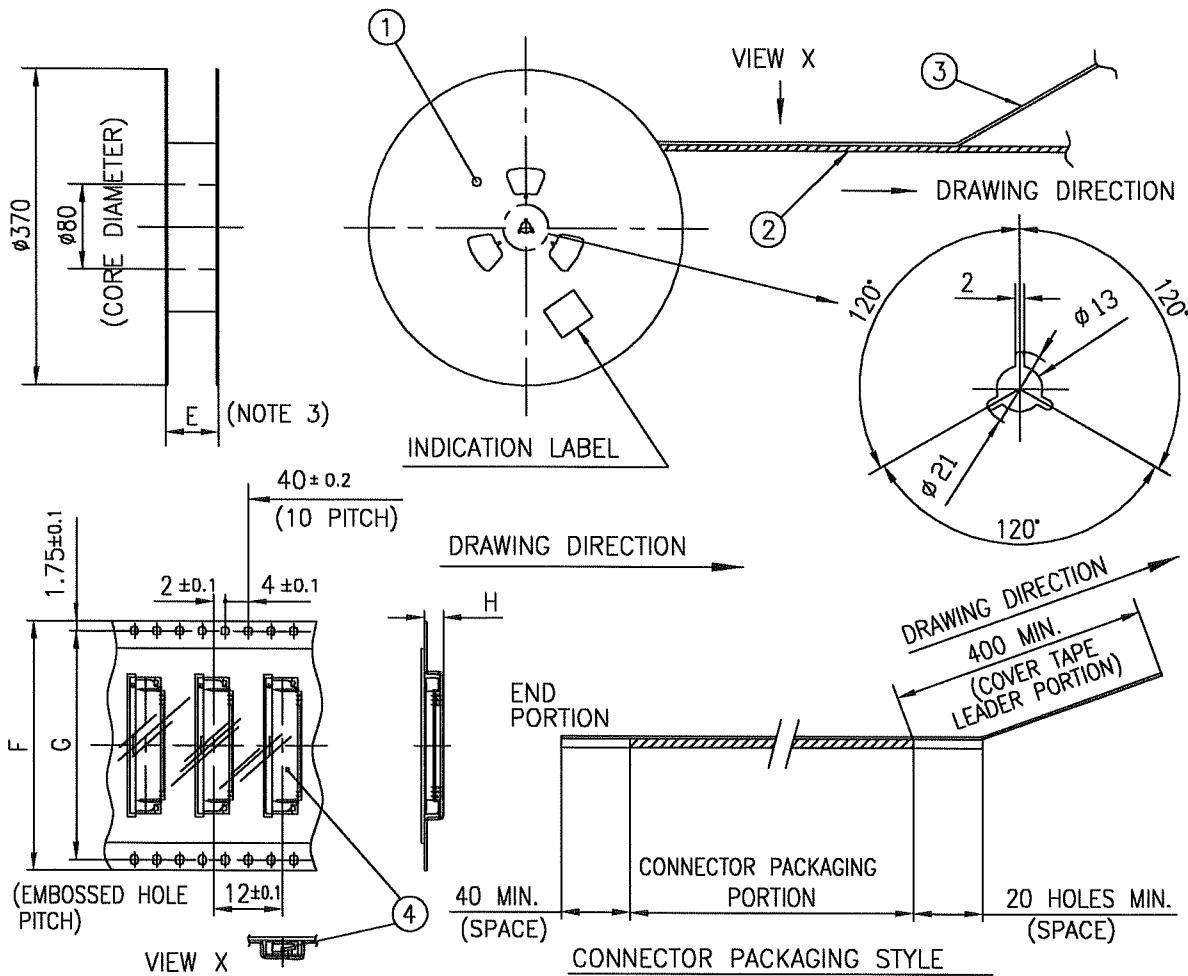
TAPE PACKAGING

LEAD FREE

NOTES

1. THIS IS SMT CONNECTOR FOR AUTOMATIC MOUNTING.
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
3. SEE DRAWINGS OF CONNECTOR PACKAGING FOR DIMENSIONS E~H.

mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection		product family 58BF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified				mm		title			
A	J05-0280	H.T	5/12/05	angles linear				mm		CAT NO. TABLE FOR PLASTIC TAPE PACKAGED 0.8mm SPACING CONNECTOR (Cat. No. SFR__R-1STE1LF)			
B	J06-0485	H.T	11/20/06					scale X		dwg no JSA 96441 sheet 1 of 1 size A4			
				dr				FCJ		type Product Customer Drawing			
				engr									
				chr									
				appd									
sheet index		revision B										Rev. B	
sheet 1													



PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	CARDBOARD	1	COLOR:GRAY
2	PLASTIC (EMBOSS) TAPE	_____	POLYPROPYLENE or A-PET	_____	COLOR:TRANSPARENCY
3	COVER	_____	POLYESTER	_____	COLOR:TRANSPARENCY
4	SURFLOK CONNECTOR	SFR__R-1ST__LF	SEE ATTACHED DWG	2000	_____

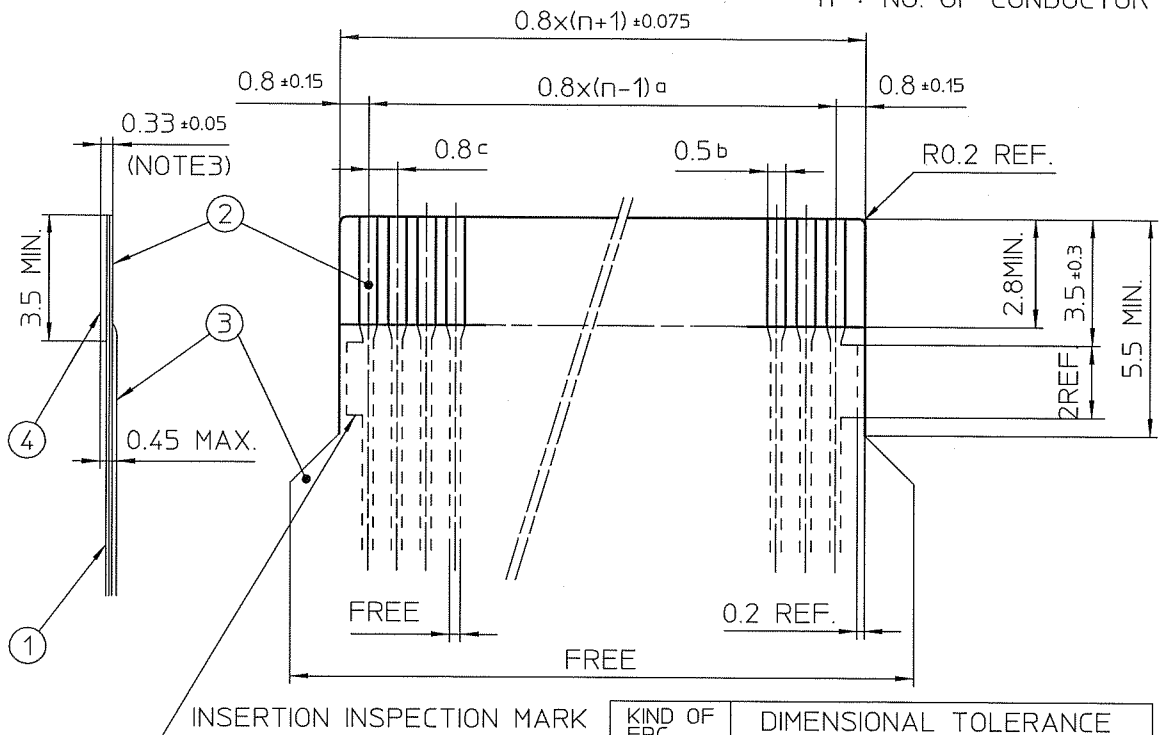
NOTES

- THIS IS PLASTIC TAPE PACKAGED SMT CONNECTORS FOR AUTOMATIC MOUNTING.
- 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 mm	product family 58BF	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm	title PLASTIC TAPE PACKAGED 0.8mm SPACING CONNECTOR (Cat. No. SFR__R-1STE1LF)	
A	J05-0280	H.T	5/12/05	angles	linear			
B	J06-0485	H.T	11/20/06	±5'		scale	dwg no JSA 96442	
				dr	11/20/06	FCI	sheet 1 of 1 size A4	
				enr	11/20/06		type Product Customer Drawing	
				chr	11/20/06			
				appd	11/20/06			
sheet index	revision	B						
	sheet	1						

RECOMMENDED CABLE (FPC)

n : NO. OF CONDUCTOR



KIND OF FPC (NOTE 4)	DIMENSIONAL TOLERANCE		
	a	b	c
1	±0.04	±0.05	±0.04
2	±0.035	±0.075	±0.035

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

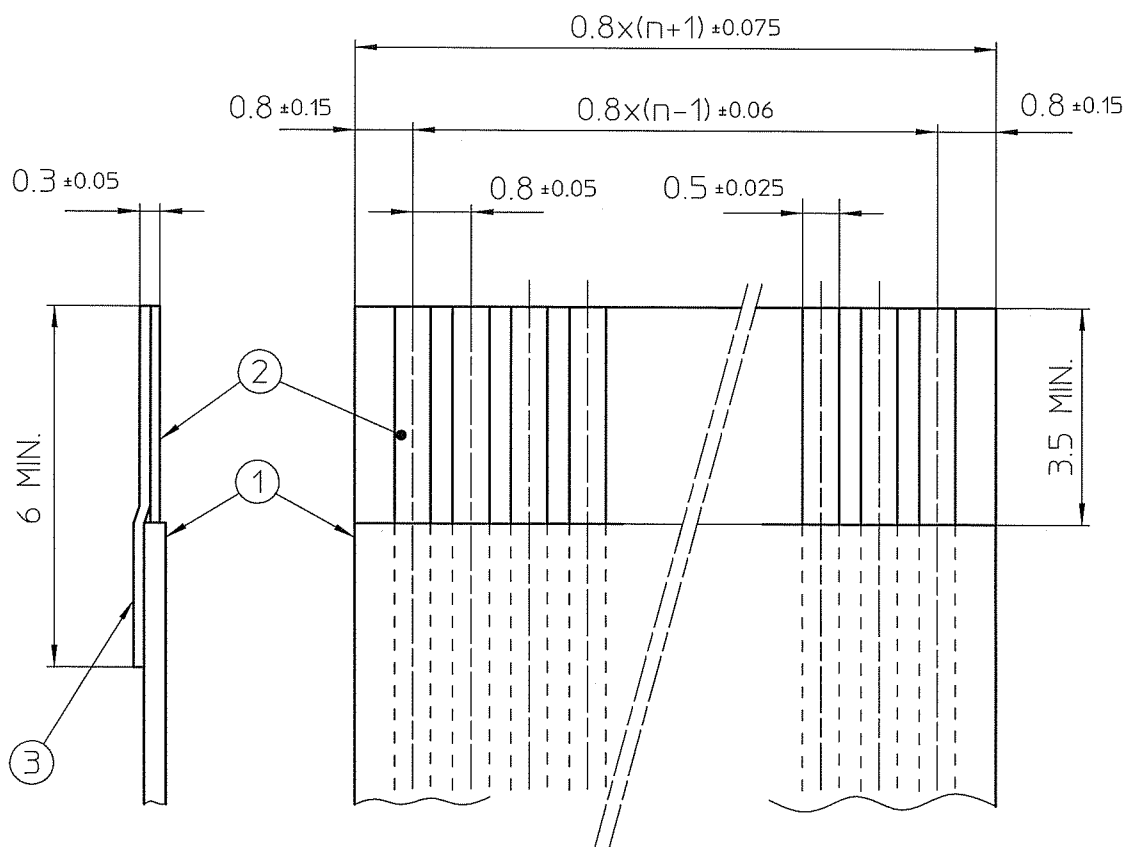
NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. TOTAL THICKNESS LIMIT OF EACH MATERIAL (INCLUDING ADHESIVE AGENT) IS SPECIFIED.
4. EITHER KIND1 OR KIND2 OF FPC CAN ACCEPT DIMENSIONAL TOLERANCE a, b AND C.

mat'l. code				surface ☒ ISO 1302 ☐ tolerance ☒ ISO 406 ☐ ISO 1101		projection		product family 58BF			
ltr	ecn no	dr	date	tolerances unless otherwise specified				title RECOMMENDED CABLE (CAT.No.SFR__R-1ST__)			
AA	J04-0357	H.T	Oct.13/04								
AB	J06-0351	H.T	8/29/06	angles	linear			scale X			
				dr	H. T. Shoji		8/29/06				
				enr	H. T. Shoji		8/29/06				
				chr	H. T. Shoji		8/29/06				
				appd	S. Chida		8/29/06				
sheet index		revision sheet	AB					dwg no JSA 90454		sheet 1 of 1	size A4
			1					type Product Customer Drawing			
										Rev. AB	

RECOMMENDED CABLE (FFC)

n : NO. OF CONDUCTORS



PT. NO.	PARTS NAME	MATERIAL	NOTE
1	INSULATOR	FLAME RESISTING POLYESTER OR EQUAL	
2	CONDUCTOR	COPPER FOIL : 50 μm	PLATING : TIN OR SOLDER 1 μm 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 ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family 58BF	
lfr	ecn no	dr	date	tolerances unless otherwise specified						title RECOMMENDED CABLE (FFC) (CAT.No.SFR__R-1ST__)	
AA	J04-0357	H.T	Oct.13/04								
AB	J06-0351	H.T	8/29/06	angles	linear					dwg no JSA 90455	
				dr	8/29/06				sheet 1 of 1 size A4		
				enrg	8/29/06						
				chr	8/29/06						
				appd	8/29/06						
sheet index		revision sheet	AB 1					type Product Customer Drawing			