

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

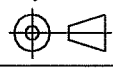
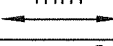
FOR AUTOMATIC MOUNTING (SMT)

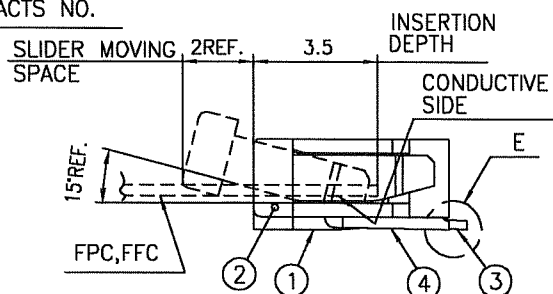
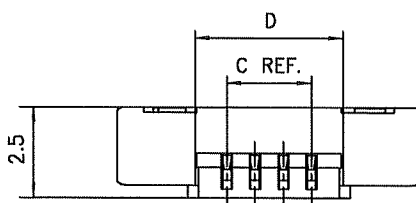
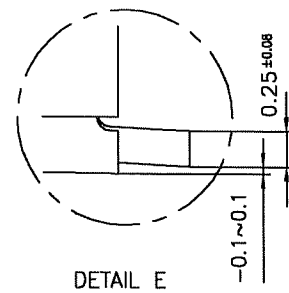
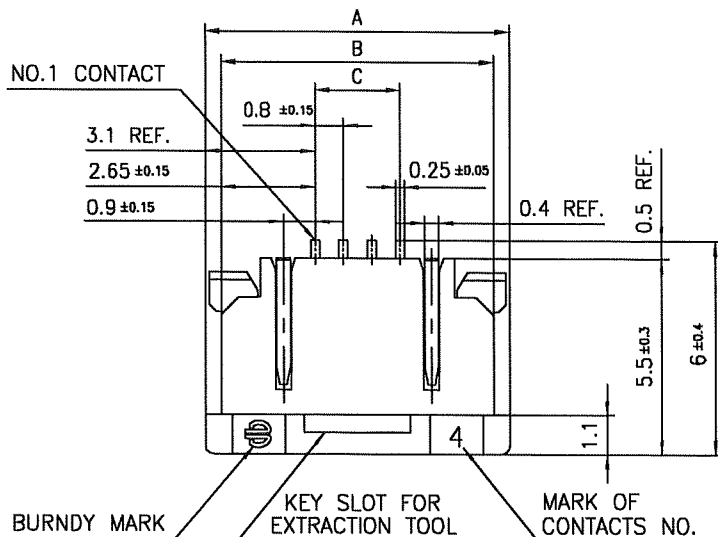
PACKAGE STYLE

LEAD FREE

NOTES

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

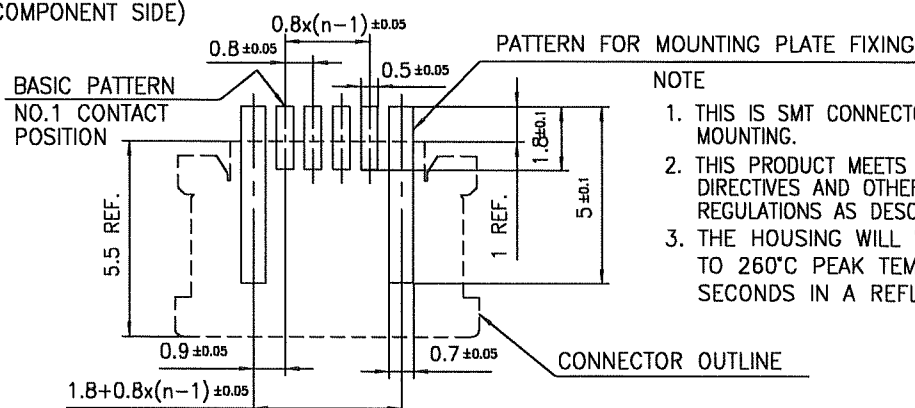
mat'l. code				surface ☒ ISO 1302 ☒ tolerance ☒ ISO 406 ☒ ISO 1101		projection 		product family 58BF		CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified				title CAT NO. TABLE FOR 0.8mm SPACING CONNECTOR (Cat. No. SFR__R-1ST__LF)			
A	J05-0280	H.T	5/12/05	angles	linear	mm					
B	J06-0485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

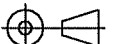
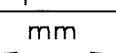
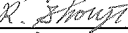
n : NO. OF CONTACTS

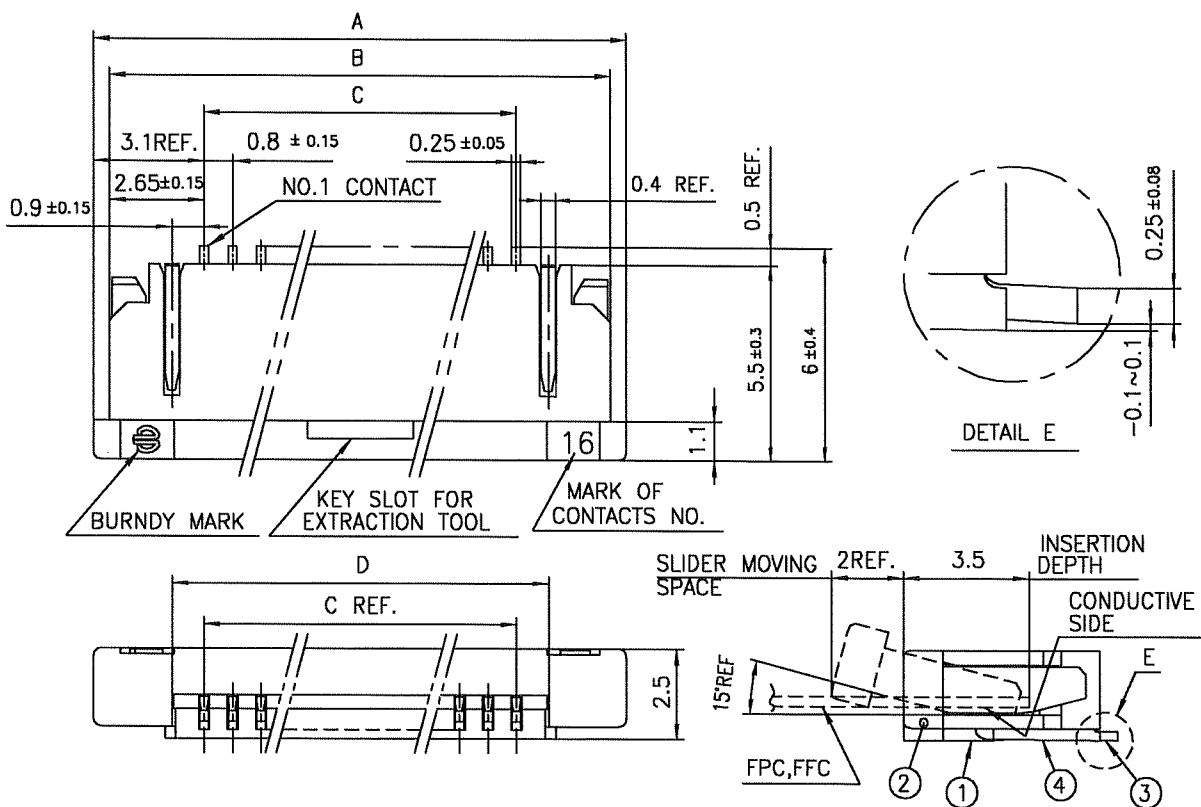
RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)



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.

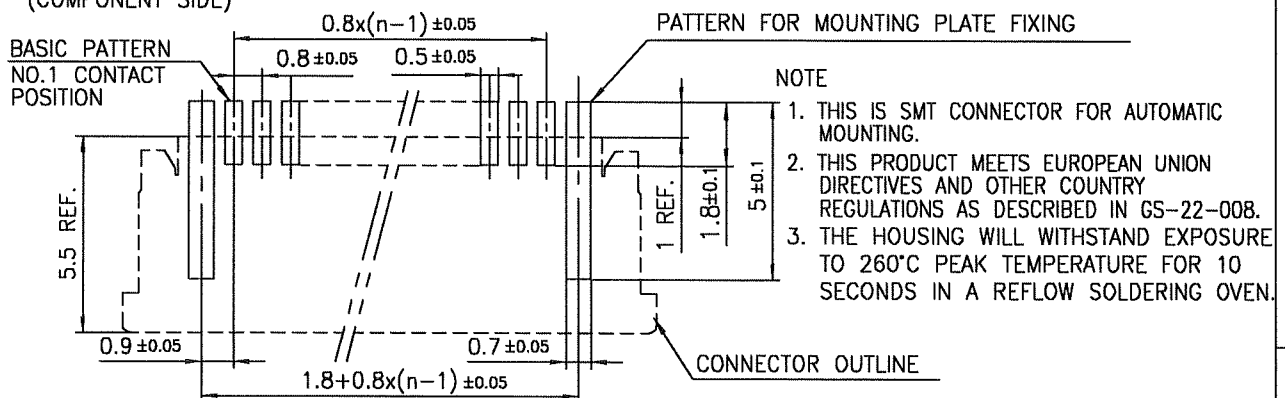
mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family 58BF				CODE JP						
ltr	ecn no	dr	date	tolerances unless otherwise specified						title 0.8mm SPACING CONNECTOR (Cat. No. SFR4R-1ST__LF)										
A	J05-0280	H.T	5/12/05	angles	linear		±0.2													
B	J05-0730	H.T	10/28/05																	
C	J06-0485	H.T	11/20/06					scale 		dwg no JSA 96439										
				dr			11/20/06													
				enr			11/20/06													
				chr			11/20/06													
				appd			11/20/06		type Product Customer Drawing											
sheet index	revision	C													Rev. C					
	sheet	1																		

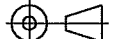
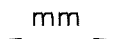
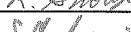


PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK
2	SLIDER		1	
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : TIN (LEAD FREE)
4	MOUNTING PLATE		2	

n : NO. OF CONTACTS

RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)



mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family 58BF				CODE JP		
ltr	ecn no	dr	date	tolerances unless otherwise specified						title 0.8mm SPACING CONNECTOR (Cat. No. SFR__R-1ST__LF)						
A	J05-0280	H.T	5/12/05	angles	linear	±0.2		mm								
B	J05-0730	H.T	10/28/05													
C	J06-0485	H.T	11/20/06					scale X		dwg no sheet 1 of 1 JSA 96440 size A4						
				dr			11/20/06									
				enrg			11/20/06									
				chr			11/20/06									
				appd			11/20/06									
sheet index		revision		C											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)

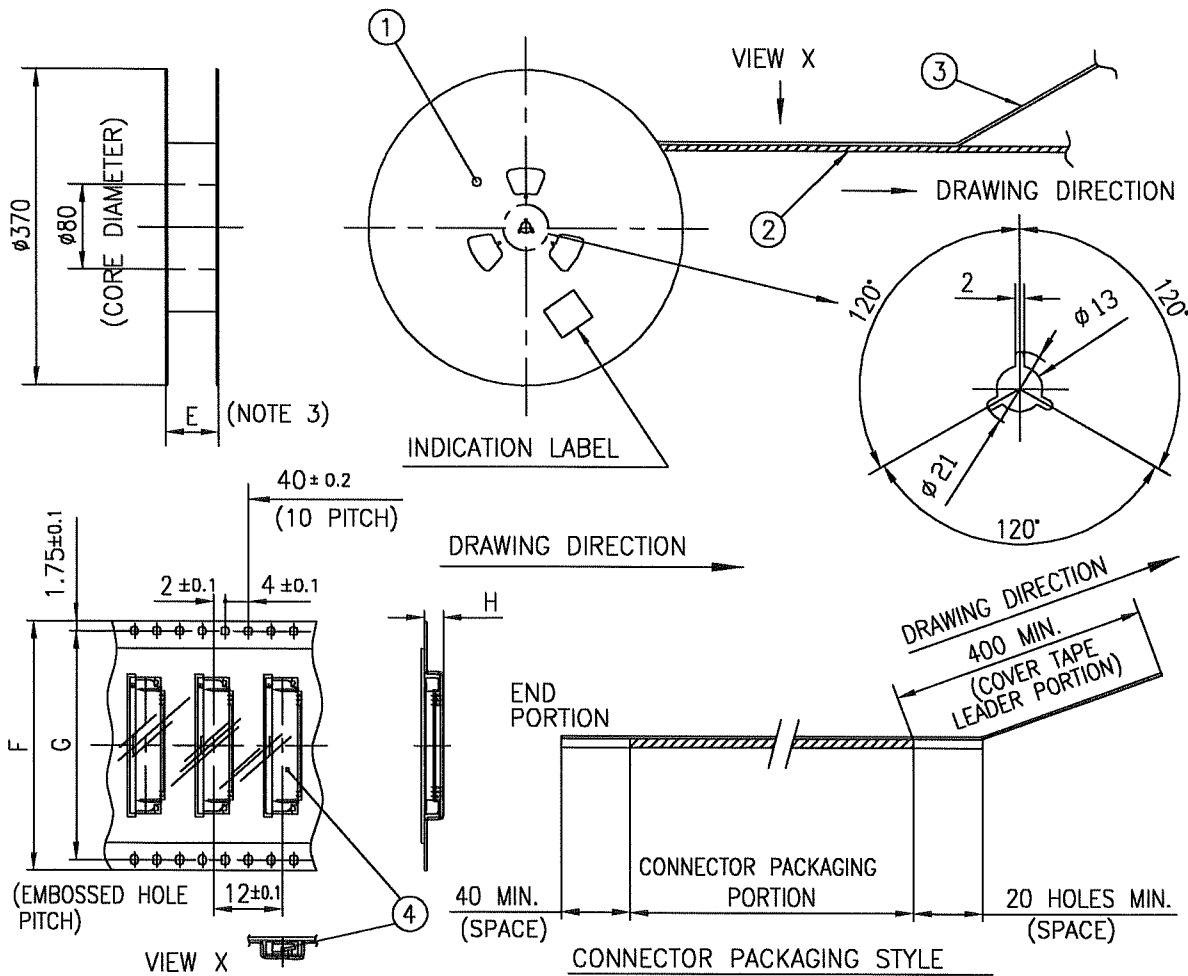
TAPE PACKAGING

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 sheet 1 of 1 size			
				dr				FCI		JSA 96441 A4			
				enr						type Product Customer Drawing			
				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	_____

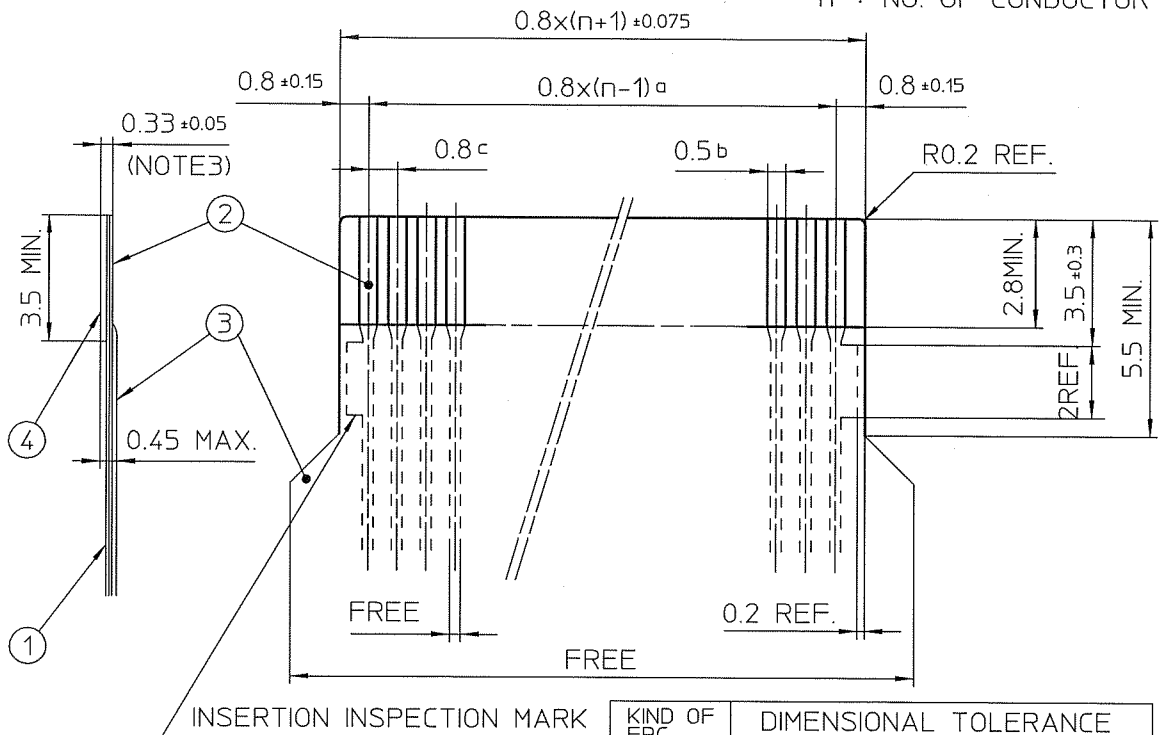
NOTES

- 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 X	dwg no JSA 96442	
				dr	11/20/06			
				enr	11/20/06		sheet 1 of 1 size A4	
				chr	11/20/06			
				appd	11/20/06		type Product Customer Drawing	
sheet index	revision sheet	B 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

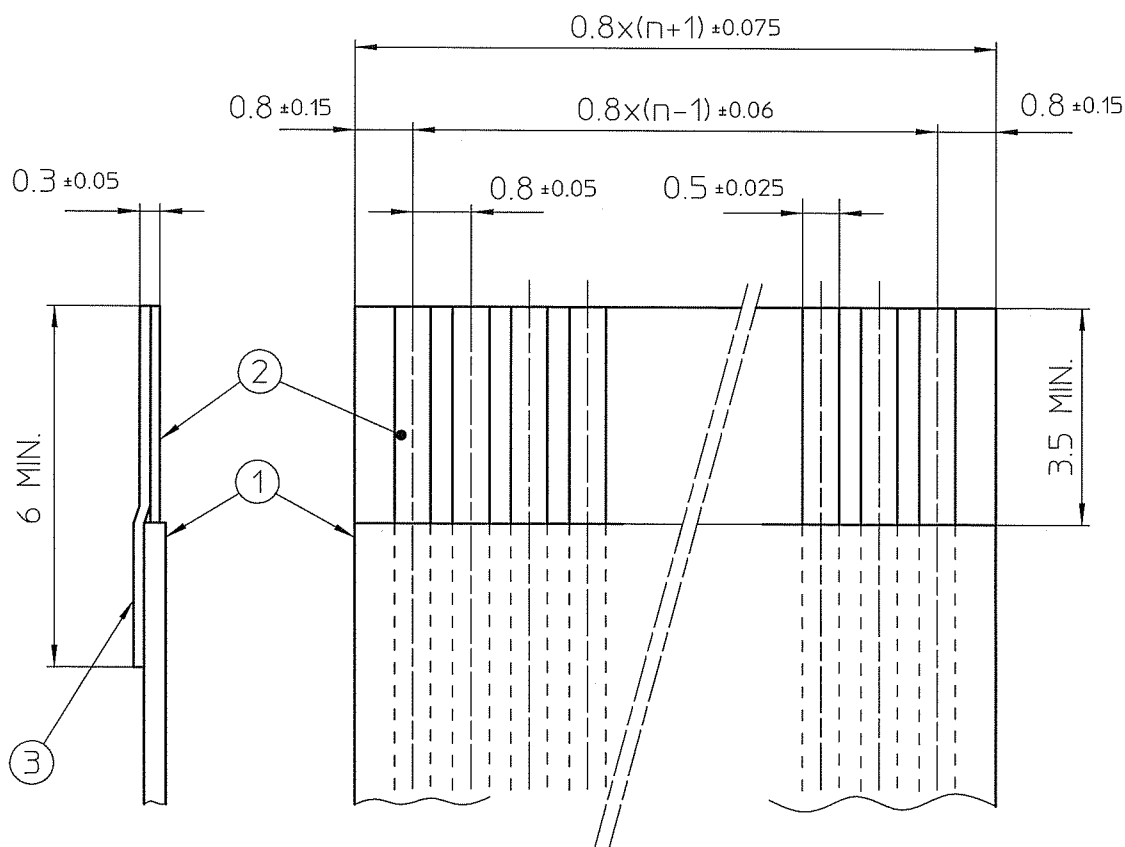
NOTES

- NO BURR AT EACH PORTION.
- NO PEELING IN COMMON USE.
- TOTAL THICKNESS LIMIT OF EACH MATERIAL (INCLUDING ADHESIVE AGENT) IS SPECIFIED.
- 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					
litr				ecn no		dr		date		title			
AA				J04-0357		H.T		Oct.13/04		RECOMMENDED CABLE			
AB				J06-0351		H.T		8/29/06		(CAT.No.SFR__R-1ST__)			
										scale X			
										dwg no			
										sheet 1 of 1			
										JSA 90454			
										size A4			
										type Product Customer Drawing			
sheet index		revision sheet		AB		1						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 μ m	PLATING : TIN OR SOLDER 1 μ m 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	angles		linear							
AB	J06-0351	H.T	8/29/06					scale					
				dr	8/29/06				dwg no		sheet 1 of 1	size	
				enrg	8/29/06				JSA 90455		A4		
				chr	8/29/06								
				appd	8/29/06								
sheet index	revision sheet	AB	1									Rev. AB	