

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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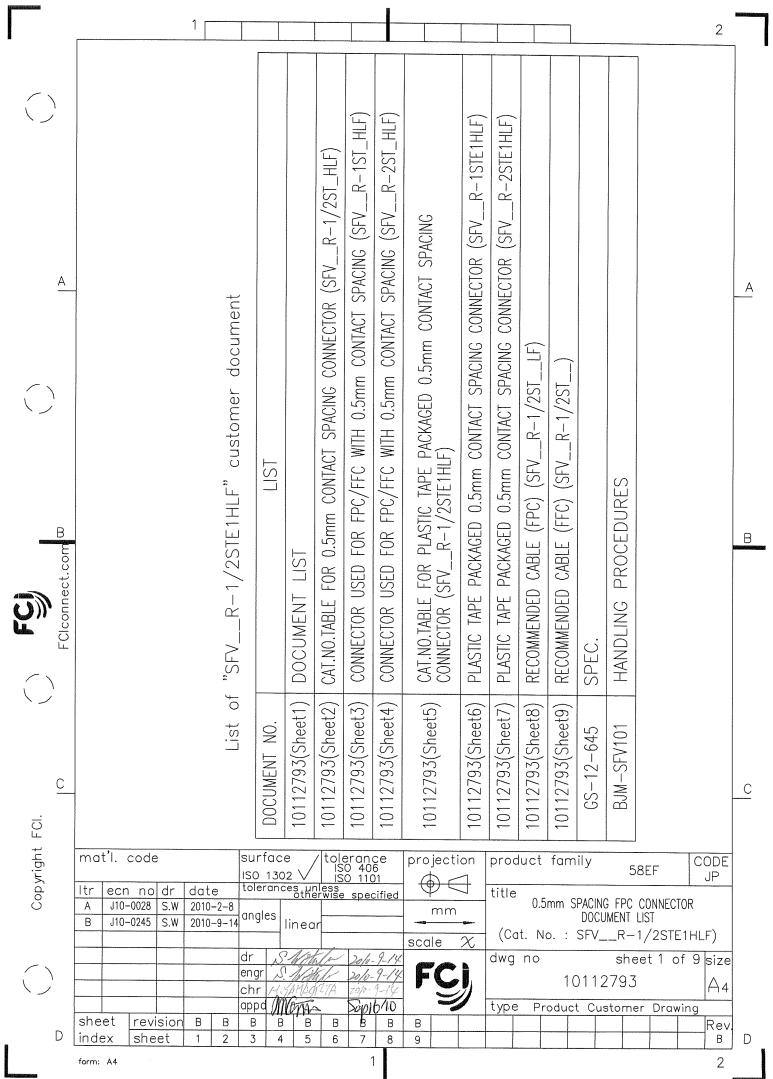
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









PDM: Rev:B

STATUS: Released

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CONTACTS (n)	CAT. NO.	A ± 0.2	B ± 0.2	C ± 0.1	D ± 0.1
4	SFV4R-1/2STHLF	7.5	5.9	1.5	2.7
5	SFV5R-1/2STHLF	8.0	6.4	2.0	3.2
6	SFV6R-1/2STHLF	8.5	6.9	2.5	3.7
7	SFV7R-1/2STHLF	9.0	7.4	3.0	4.2
8	SFV8R-1/2STHLF	9.5	7.9	3.5	4.7
9	SFV9R-1/2STHLF	10.0	8.4	4.0	5.2
10	SFV10R-1/2STHLF	10.5	8.9	4.5	5.7
11	SFV11R-1/2STHLF	11.0	9.4	5.0	6.2
12	SFV12R-1/2STHLF	11.5	9.9	5.5	6.7
13	SFV13R-1/2STHLF	12.0	10.4	6.0	7.2
14	SFV14R-1/2STHLF	12.5	10.9	6.5	7.7
15	SFV15R-1/2STHLF	13.0	11.4	7.0	8.2
16	SFV16R-1/2STHLF	13.5	11.9	7.5	8.7
17	SFV17R-1/2STHLF	14.0	12.4	8.0	9.2
18	SFV18R-1/2STHLF	14.5	12.9	8.5	9.7
19	SFV19R-1/2STHLF	15.0	13.4	9.0	10.2
20	SFV20R-1/2STHLF	15.5	13.9	9.5	10.7
21	SFV21R-1/2STHLF	16.0	14.4	10.0	11.2
22	SFV22R-1/2STHLF	16.5	14.9	10.5	11.7
23	SFV23R-1/2STHLF	17.0	15.4	11.0	12.2
24	SFV24R-1/2STHLF	17.5	15.9	11.5	12.7
25	SFV25R-1/2STHLF	18.0	16.4	12.0	13.2
26	SFV26R-1/2STHLF	18.5	16.9	12.5	13.7
27	SFV27R-1/2STHLF	19.0	17.4	13.0	14.2
28	SFV28R-1/2STHLF	19.5	17.9	13.5	14.7
29	SFV29R-1/2STHLF	20.0	18.4	14.0	15.2
30	SFV30R-1/2STHLF	20.5	18.9	14.5	15.7
31	SFV31R-1/2STHLF	21.0	19.4	15.0	16.2
32	SFV32R-1/2STHLF	21.5	19.9	15.5	16.7
33	SFV33R-1/2STHLF	22.0	20.4	16.0	17.2
34	SFV34R-1/2STHLF	22.5	20.9	16.5	17.7
35	SFV35R-1/2STHLF	23.0	21.4	17.0	18.2

CAT. NO. SFV (n) R = 1 ST  $\longrightarrow$  HLF 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 HALOGEN and LEAD FREE -

NOTES

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

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form: A4

PDM: Rev:B

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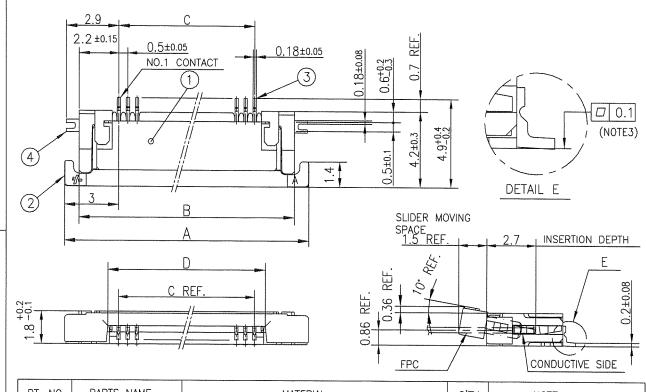
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PT. NO. PARTS NAME MATERIAL Q'TY NOTE 13~35pin : LCP RESIN GLASS REINFORCED (UL94V-0) COLOR: BLACK (HALOGEN FREE) 1 HOUSING 4~12pin : POLYAMIDE RESIN GLASS REINFORCED (UL94V-0) PPS RESIN GLASS REINFORCED (UL94V-0) 2 **SLIDER** 1 COLOR: BLACK (HALOGEN FREE) 3 CONTACT n PLATING: THIN TIN PHOSPHOR BRONZE 4 MOUNTING PLATE 2 PLATING: LEAD FREE

n: NO. OF CONTACTS RECOMMENDED PC BOARD LAYOUT PATTERN FOR MOUNTING PLATE FIXING (COMPONENT SIDE)  $6.2+0.5x(n-1)\pm0.05$ **NOTES**  $0.5x(n-1)\pm0.05$ REF 1.1±0.05 1.THIS PRODUCT IS THE CONNECTOR USED FOR FPC 3.1±0.05  $0.5 \pm 0.03$ Ö. AND COPES WITH AUTOMATIC MOUNTING (SMT). 2.THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR. 3.FLATNESS OF CONTACT TERMINAL AND MOUNTING PLATE 4±0.05 MUST BE WITHIN TOLERANCE IN E PORTION DETAILED REF. 6±0.05 DRAWING. 4.THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES 9.0  $0.3 \pm 0.05$ AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN 0.7±0.05 GS-22-008. 1.4±0.05 5.THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C BASIC PATTERN CONNECTOR PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW 2.65±0.05 OUTLINE NO.1 CONTACT POSITION SOLDERING OVEN. tolerance ISO 406 mat'l. code surface product family projection CODE 58EF ISO 1302 JP <u>iso</u> 1101 tolerances unless otherwise specified ecn no dr date CONNECTOR USED FOR FPC ±0.2 mm WITH 0.5 mm CONTACT SPACING angles linear (Cat No. : SFV\_\_R-1ST\_\_HLF) scale sheet 3 of 9 size dwg no

xp16/10

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Drawing

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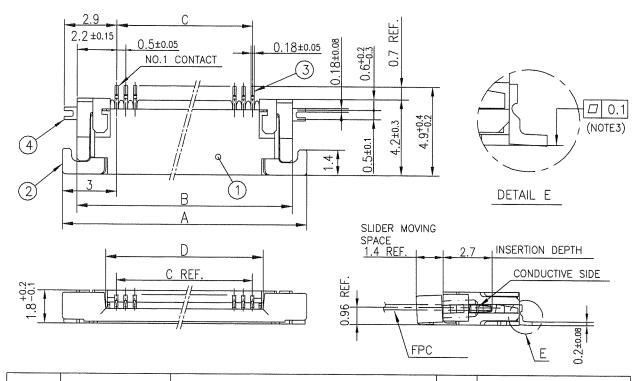
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PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOLICINO	13~35pin : LCP RESIN GLASS REINFORCED (UL94V-0)	1	00100 01101 (111005) 5055)
	HOUSING	4~12pin : POLYAMIDE RESIN GLASS REINFORCED (UL94V-0)	ı	COLOR : BLACK (HALOGEN FREE)
2	SLIDER	PPS RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK (HALOGEN FREE)
3	CONTACT	PHOSPHOR BRONZE	n	PLATING : THIN TIN
4	MOUNTING PLATE	FRUSFRUK BRUNZE	2	PLATING : LEAD FREE

n: NO. OF CONTACTS PATTERN FOR MOUNTING PLATE RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE) **FIXING**  $6.2+0.5x(n-1)\pm0.05$ RFF. NOTES  $0.5x(n-1)\pm0.05$ 1.THIS PRODUCT IS THE CONNECTOR USED FOR FPC

.5±0.05 1.1±0.05 0.2 3.1±0.05 0.5±0.03 AND COPES WITH AUTOMATIC MOUNTING (SMT). 2.THIS PRODUCT IS UPPER CONTACT TYPE CONNECTOR. 3.FLATNESS OF CONTACT TERMINAL AND MOUNTING PLATE MUST BE WITHIN TOLERANCE IN E PORTION DETAILED REF.  $0.6 \pm 0.05$ DRAWING.

0.4

CONNECTOR OUTLINE

0.3±0.05

BASIC PATTERN

NO.1 CONTACT

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.

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2.3±0.05

 $0.7 \pm 0.05$ 

1.4±0.05

2.65±0.05

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### CAT. NO. & DIMENSIONS

NO. OF CONTACTS	CAT NO	DIMENS	SIONS (NO	TE3)
(n)	CAT. NO.	F±5	G ± 0.3	H ± 0.1
4	SFV4R-1/2STE1HLF	20.4	16	
5	SFV5R-1/2STE1HLF	20.4	16	
6	SFV6R-1/2STE1HLF	20.4	16	
7	SFV7R-1/2STE1HLF	28.4	24	
8	SFV8R-1/2STE1HLF	28.4	24	
9	SFV9R-1/2STE1HLF	28.4	24	
10	SFV10R-1/2STE1HLF	28.4	24	
11	SFV11R-1/2STE1HLF	28.4	24	
12	SFV12R-1/2STE1HLF	28.4	24	
13	SFV13R-1/2STE1HLF	28.4	24	
14	SFV14R-1/2STE1HLF	28.4	24	
15	SFV15R-1/2STE1HLF	28.4	24	
16	SFV16R-1/2STE1HLF	28.4	24	
17	SFV17R-1/2STE1HLF	28.4	24	
18	SFV18R-1/2STE1HLF	28.4	24	
19	SFV19R-1/2STE1HLF	28.4	24	
20	SFV20R-1/2STE1HLF	28.4	24	
21	SFV21R-1/2STE1HLF	28.4	24	
22	SFV22R-1/2STE1HLF	28.4	24	
23	SFV23R-1/2STE1HLF	36.4	32	28.4
24	SFV24R-1/2STE1HLF	36.4	32	28.4
25	SFV25R-1/2STE1HLF	36.4	32	28.4
26	SFV26R-1/2STE1HLF	36.4	32	28.4
27	SFV27R-1/2STE1HLF	36.4	32	28.4
28	SFV28R-1/2STE1HLF	36.4	32	28.4
29	SFV29R-1/2STE1HLF	36.4	32	28.4
30	SFV30R-1/2STE1HLF	36.4	32	28.4
31	SFV31R-1/2STE1HLF	48.4	44	40.4
32	SFV32R-1/2STE1HLF	48.4	44	40.4
33	SFV33R-1/2STE1HLF	48.4	44	40.4
34	SFV34R-1/2STE1HLF	48.4	44	40.4
35	SFV35R-1/2STE1HLF	48.4	44	40.4

CAT. NO. SFV (n) R - 1 ST E1 HLF 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) TAPE PACKAGING HALOGEN and LEAD FREE -

#### **NOTES**

- 1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPES WITH AUTOMATIC MOUNTING (SMT).
- 2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
- 3. SEE PART DRAWINGS FOR DIMENSIONS F~H.

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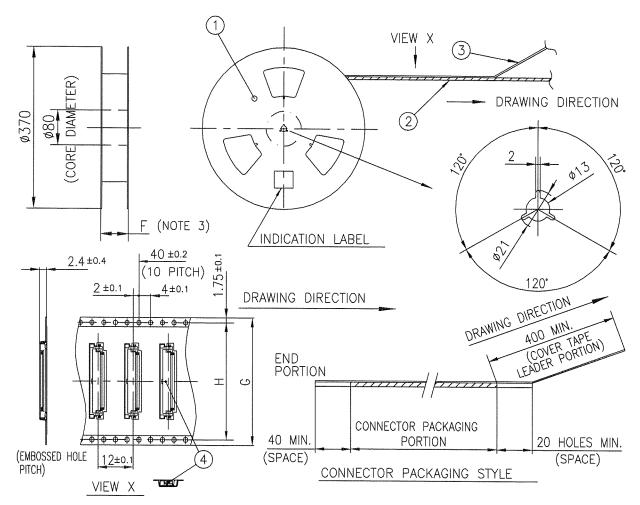
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PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL		CARDBOARD	1	COLOR : WHITE
2	PLASTIC (EMBOSS) TAPE		A-PET		COLOR : TRANSPARENCY
3	COVER		POLYESTER		COLOR : TRANSPARENCY
4	CONNECTOR	SFVR-1STHLF	SEE ATTACHED DWG.	3000	LOWER CONTACT TYPE

#### NOTES

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Α

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

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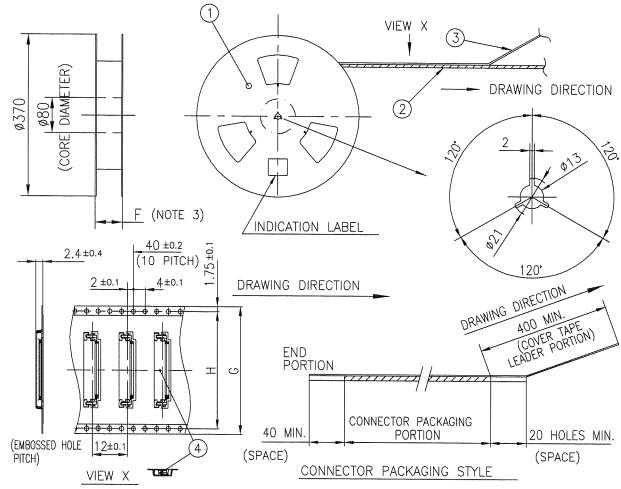
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PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL		CARDBOARD	1	COLOR : WHITE
2	PLASTIC (EMBOSS) TAPE		A-PET		COLOR : TRANSPARENCY
3	COVER		POLYESTER		COLOR : TRANSPARENCY
4	CONNECTOR	SFVR-2STHLF	SEE ATTACHED DWG.	3000	UPPER CONTACT TYPE

#### NOTES

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Α

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

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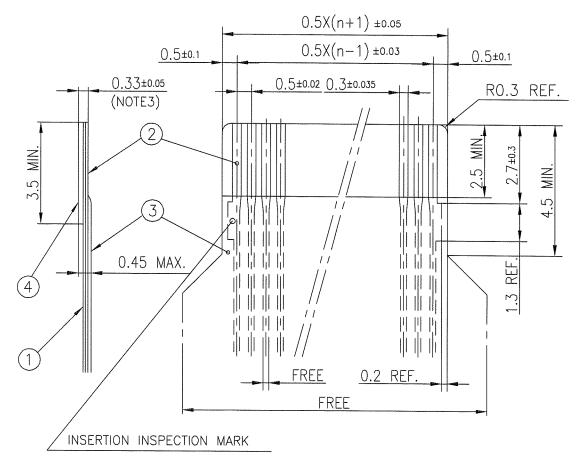
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PT. NO.	PARTS NAME	MATERIAL	THICKNESS (µm)
1	BASE FILM	POLYIMIDE OR POLYESTER OR EQUAL	25
2	CONDUCTOR	COPPER FOIL(PLATING : SOLDER 1 µm MIN.)	35
3	OVERLAY	POLYIMIDE OR POLYESTER OR EQUAL	
4	SUPPORTING TAPE	POLYESTER OR POLYIMIDE OR EQUAL	188

## 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.

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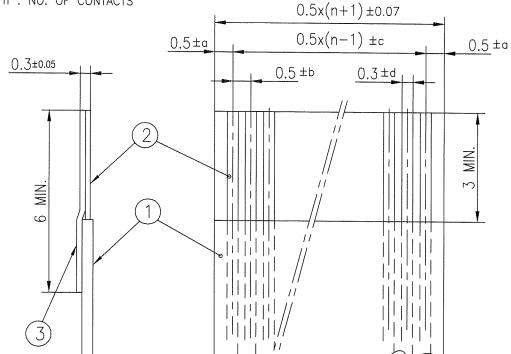
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KIND OF FFC	DIMENSIONAL TOLERANCE							
(NOTE3)	a	b	С	d				
1	±0.07	±0.04	±0.05	±0.02				
2	±0.1	±0.03	±0.03	±0.025				

PT. NO.	PARTS NAME	MATERIAL	NOTE
1	INSULATOR	FLAME RESISTING POLYESTER OR EQUAL	
2	CONDUCTOR	COPPER FOIL: THICKNESS 35 OR 50 $\mu$ m	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.
- 3. EITHER KIND1 OR KIND2 OF FFC CAN ACCEPT DIMENSIONAL TOLERANCE a,b,c AND d.

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