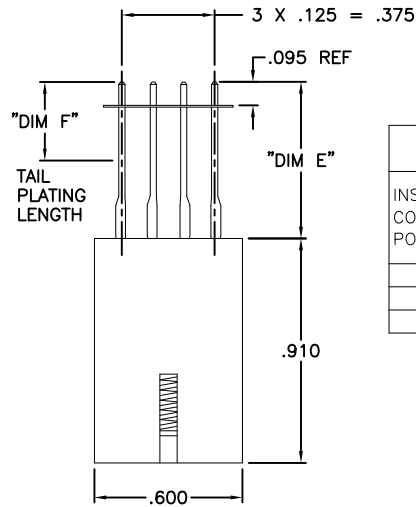
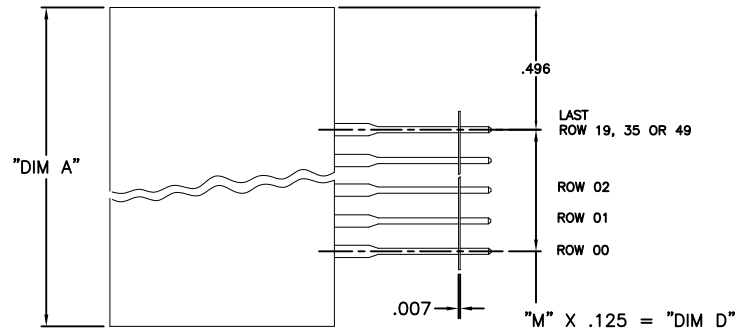
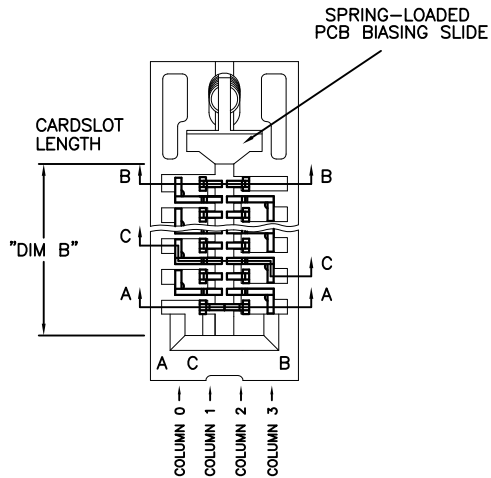


PRODUCT NUMBER
SEE TABLE



INSULATOR CONTACT POSITIONS	OVERALL LENGTH DIM "A"	CARD SLOT LENGTH DIM "B"		TAIL SPAN DIM "C"	CIRCUIT CARD WIDTH DIM "D" +.000/-0.10	SPACES "N"	SPACES "M"	FCI INSERTION TOOL
		MINIMUM (BIAS FREE)	MAXIMUM (BIAS BOTTOMED)					
198	6.918	6.325	6.355	6.125	6.350	98	49	413406-003
142	5.168	4.575	4.605	4.375	4.600	70	35	413406-002
78	3.168	2.575	2.605	2.375	2.600	38	19	413406-001

WORKING TAIL LENGTH	DIM E TAIL LENGTH FROM INSULATOR	DIM F TAIL PLATING LENGTH
.466	.633	.275 MIN.
.258	.425	.275 MIN.
.060	.230	NONE



mat'l. code		surface ASME Y14.5		tolerance ASME Y14.5		projection		product family FASTECH	
ltr	ec'n no	dr	date	tolerances unless otherwise specified		INCH		title 1200 TYPE DOUBLE DENSITY EDGE CARD CONNECTORS	
A	V12862	CGD	2002-01-07	angles	inches	scale 1:1		dwg no A87KC4034	
B	V03-0771	HTB	2003-07-15					sheet 1 of 6 size A4	
C	V03-1024	TAB	2003-09-11					type CUSTOMER Drawing	
D	V05-0149	HTB	2005-03-01	dr	R. CONRAD	1999-06-17			
E	V06-0647	JRV	2006-07-06	enr	R. CONRAD	1999-06-17			
F	V09-0537	HTB	2009-11-16	chr	R. CONRAD	1999-06-17			
				appd	R. CONRAD	1999-06-17			
sheet index	revision sheet	F	F	F	F	F	F		
		1	2	3	4	5	6		



PRODUCT NUMBER	1200 TYPE CODE	KS-22766 LIST#	INSULATOR SIZE	TOTAL I/O'S	INNERS	OUTERS	SHORTING	TAIL LENGTH	TAIL PLATING	CONTACT PLATING THICKNESS	SHORTING POSITIONS	POSITIONS WITH AU PLATED TAILS (WHEN SnPb TAILS ARE PRESENT)
1200-L1	A01	L1			U N A V A	I L A B L E						
1200-L2	A02	L2			U N A V A	I L A B L E						
1200-L5	A03	L5			U N A V A	I L A B L E						
1200-L6	A04	L6			U N A V A	I L A B L E						
1200-L10	A05	L10			U N A V A	I L A B L E						
1200-L11	A06	L11			U N A V A	I L A B L E						
1200-L16	A07	L16			U N A V A	I L A B L E						
1200-L17	A08	L17			U N A V A	I L A B L E						
1200-L18	A09	L18			U N A V A	I L A B L E						
1200-L19	A10	L19			U N A V A	I L A B L E						
1200-L20	A11	L20			U N A V A	I L A B L E						
1200-L24	A12	L24			U N A V A	I L A B L E						
1200-L25	A13	L25			U N A V A	I L A B L E						
1200-L26	A14	L26			U N A V A	I L A B L E						
1200-L27	A15	L27			U N A V A	I L A B L E						
1200-L28	A16	L28			U N A V A	I L A B L E						
1200-L31	A17	L31			U N A V A	I L A B L E						
1200-L34	A18	L34			U N A V A	I L A B L E						
1200-L38	A19	L38			U N A V A	I L A B L E						
1200-L39	A20	L39	198	198	94	98	6	0.258	SnPb	75uin	147-149, 247-249	
1200-L40	A21	L40			U N A V A	I L A B L E						
1200-L41	A22	L41			U N A V A	I L A B L E						
1200-L42	A23	L42			U N A V A	I L A B L E						
1200-L48	A24	L48			U N A V A	I L A B L E						
1200-L12	B01	L12			U N A V A	I L A B L E						
1200-L14	B02	L14			U N A V A	I L A B L E						
1200-L15	B03	L15			U N A V A	I L A B L E						
1200-L23	B04	L23			U N A V A	I L A B L E						
1200-L30	B05	L30			U N A V A	I L A B L E						
1200-L3	C01	L3	78	78	40	38		0.466	SnPb	75uin		
1200-L4	C02	L4			U N A V A	I L A B L E						
1200-L7	C03	L7			U N A V A	I L A B L E						
1200-L8	C04	L8			U N A V A	I L A B L E						
1200-L9	C05	L9	78	78	8	38	32	0.466	Au,SnPb	75uin	102-117, 202-217	102-117, 202-217
1200-L13	C06	L13			U N A V A	I L A B L E						
1200-L21	C07	L21			U N A V A	I L A B L E						
1200-L22	C08	L22			U N A V A	I L A B L E						
1200-L29	C09	L29			U N A V A	I L A B L E						
1200-L32	C10	L32			U N A V A	I L A B L E						
1200-L33	C11	L33			U N A V A	I L A B L E						
1200-L35	C12	L35			U N A V A	I L A B L E						
1200-L36	C13	L36	78	78	36	38	4	0.258	SnPb	75uin	118, 119, 218, 219	
1200-L37	C14	L37			U N A V A	I L A B L E						
1200-L43	C15	L43	78	78	8	38	32	0.258	SnPb	75uin	102-117, 202-217	
1200-L44	C16	L44			U N A V A	I L A B L E						
1200-L45	C17	L45			U N A V A	I L A B L E						
1200-L46	C18	L46			U N A V A	I L A B L E						
1200-L47	C19	L47			U N A V A	I L A B L E						
1200-L48	A24	L48			U N A V A	I L A B L E						

TABLE 3
DOUBLE DENSITY EDGE CARD
INFORMATION CHART

* 1200-L38 AU PLATED TAILS ARE .466 IN. LONG, ALL OTHER TAILS ARE .258 IN. LONG.
SEE SHEET 5 FOR CONTACT POSITION REFERENCE

mat'l. code		surface ASME Y14.5		tolerance ASME Y14.5		projection		product family FASTECH	
ltr	ecr no	dr	date	tolerances unless otherwise specified		INCH		title	
F				angles	linear	scale 1:1		1200 TYPE DOUBLE DENSITY EDGE CARD CONNECTORS	
				dr	R. CONRAD	1999-06-17		dwg no sheet 2 of 6 size	
				engr	R. CONRAD	1999-06-17	FCI	A87KC4034 A4	
				chr	R. CONRAD	1999-06-17		type CUSTOMER Drawing	
				appd	R. CONRAD	1999-06-17			
sheet index	revision sheet								



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1 | 2



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3 |



4

PRODUCT NUMBER
SEE TABLE

DOUBLE DENSITY EDGE CARD PRODUCT FEATURES

DOUBLE DENSITY EDGE CARD CONNECTORS PROVIDE 50 – 198 I/O'S WITH A CIRCUIT CARD FINGER SPACING OF 1/16" (.0625) CENTERS. CONTACT TAILS ARE AVAILABLE IN 3 LENGTHS WITH GOLD PLATING FOR REAR PLUG UP OR SOLDER PLATING FOR WIRE WRAP. THE CONNECTOR ALSO UTILIZES A SPRING LOADED BIASING FEATURE THAT MAINTAINS PROPER CARD POSITION DURING INSERTION AND WITHDRAWAL OF THE CIRCUIT CARD. THE CONNECTOR IS TERMINATED TO THE PCB BY INSERTION OF COMPLIANT PRESS-FIT TAILS.

DOUBLE DENSITY EDGE CARD TECHNICAL DATA

ALL DIMENSIONS ARE IN INCHES.
CONNECTOR INSTALLATION FORCE: 30 LBS/CONTACT TYPICAL, 65 LBS MAX.
CONNECTOR RETENTION FORCE; 10 LBS/CONTACT MINIMUM
CIRCUIT CARD INSERTION FORCE: INNER CONTACTS
INNER CONTACTS – .5 LBS/CONTACT TYPICAL
OUTER CONTACTS – .8 LBS/CONTACT TYPICAL
SHORTING CONTACTS – 1 LB/CONTACT TYPICAL
DURABILITY: 200 CYCLES
LONG TERM OPERATING TEMPERATURE: -55 TO 70 C.
SHORT TERM OPERATING TEMPERATURE: -55 TO 85 C.
WITHSTANDING VOLTAGE: 1000 VAC RMS
CONTACT AREA PLATING: 75 MICROINCHES HARD GOLD MIN. OVER 100 MICROINCHES MIN NICKEL
CONTACT NORMAL FORCE: 100 GRAMS MINIMUM
CONTACT RESISTANCE; 9 MILLIOHMS TYPICAL
MAX CONTACT CURRENT: 1 AMP/CONTACT
INSULATOR MATERIAL: POLYBUTYLENE TEREPHTHALATE (PBT)
FLAMMABILITY RATING: UL-94 V0

mat'l. code				surface ASME Y14.5 <input checked="" type="checkbox"/>		tolerance ASME Y14.5		projection 		product family FASTECH	
ltr	ecr no	dr	date	tolerances unless otherwise specified							
F				angles	inches	INCH				title 1200 TYPE DOUBLE DENSITY EDGE CARD CONNECTORS	
						scale - NTS				dwg no sheet 3 of 6 size	
				dr	R. CONRAD	1999-06-17				A87KC4034 A4	
				enrg	R. CONRAD	1999-06-17					
				chr	R. CONRAD	1999-06-17					
				appd	R. CONRAD	1999-06-17					
sheet index	revision sheet										

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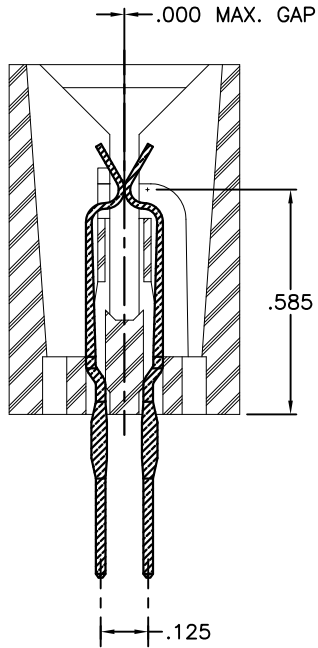
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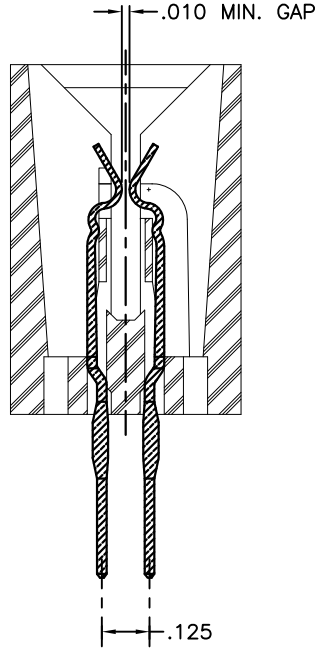
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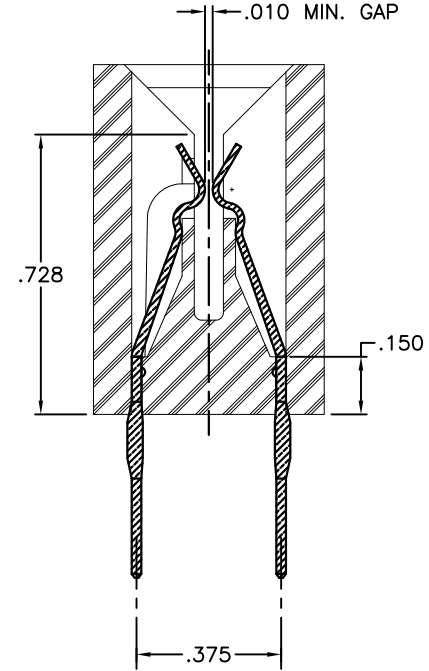
PRODUCT NUMBER
SEE TABLE



SHORTING CONTACTS
SECTION A-A



INNER CONTACTS
SECTION B-B



OUTER CONTACTS
SECTION C-C

mat'l. code		surface ASME Y14.5		tolerance ASME Y14.5		projection FIRST ANGLE		product family FASTECH	
ltr	ecm no	dr	date	tolerances unless otherwise specified		INCH		title 1200 TYPE DOUBLE DENSITY EDGECARD CONNECTORS	
F				angles	linear	scale 2:1		dwg no A87KC4034	
				dr	R. CONRAD	1999-06-17	sheet 4 of 6		size A4
				engr	R. CONRAD	1999-06-17	FCI		
				chr	R. CONRAD	1999-06-17	type CUSTOMER Drawing		
				appd	R. CONRAD	1999-06-17			
sheet index	revision sheet								

PRODUCT NUMBER
SEE TABLE

DOUBLE DENSITY EDGE CARD BACKPLANE LAYOUT AND CONTACT PLACEMENT
VIEW FROM CIRCUIT CARD SIDE

BIAS
SLIDE
END

49	0000	49	.00	35	0000	19	0000	19	0000	19	0000	19	0000	19	.00
48	00000	48	.000	34	00000	18	00000	18	00000	18	00000	18	00000	18	.000
47	000000	47	.0000	33	000000	17	000000	17	000000	17	000000	17	000000	17	.0000
46	0000000	46	.00000	32	0000000	16	0000000	16	0000000	16	0000000	16	0000000	16	.00000
45	00000000	45	.000000	31	00000000	15	00000000	15	00000000	15	00000000	15	00000000	15	.000000
44	000000000	44	.0000000	30	000000000	14	000000000	14	000000000	14	000000000	14	000000000	14	.0000000
43	0000000000	43	.00000000	29	0000000000	13	0000000000	13	0000000000	13	0000000000	13	0000000000	13	.00000000
42	00000000000	42	.000000000	28	00000000000	12	00000000000	12	00000000000	12	00000000000	12	00000000000	12	.000000000
41	000000000000	41	.0000000000	27	000000000000	11	000000000000	11	000000000000	11	000000000000	11	000000000000	11	.0000000000
40	0000000000000	40	.00000000000	26	0000000000000	10	0000000000000	10	0000000000000	10	0000000000000	10	0000000000000	10	.00000000000
39	00000000000000	39	.0000000000000	25	00000000000000	09	00000000000000	09	00000000000000	09	00000000000000	09	00000000000000	09	.000000000000
38	000000000000000	38	.00000000000000	24	000000000000000	08	000000000000000	08	000000000000000	08	000000000000000	08	000000000000000	08	.0000000000000
37	0000000000000000	37	.000000000000000	23	0000000000000000	07	0000000000000000	07	0000000000000000	07	0000000000000000	07	0000000000000000	07	.00000000000000
36	00000000000000000	36	.00000000000000000	22	00000000000000000	06	00000000000000000	06	00000000000000000	06	00000000000000000	06	00000000000000000	06	.000000000000000
35	000000000000000000	35	.000000000000000000	21	000000000000000000	05	000000000000000000	05	000000000000000000	05	000000000000000000	05	000000000000000000	05	.00000000000000000
34	0000000000000000000	34	.0000000000000000000	20	0000000000000000000	04	0000000000000000000	04	0000000000000000000	04	0000000000000000000	04	0000000000000000000	04	.0000000000000000000
33	00000000000000000000	33	.00000000000000000000	19	00000000000000000000	03	00000000000000000000	03	00000000000000000000	03	00000000000000000000	03	00000000000000000000	03	.00000000000000000000
32	000000000000000000000	32	.000000000000000000000	18	000000000000000000000	02	000000000000000000000	02	000000000000000000000	02	000000000000000000000	02	000000000000000000000	02	.000000000000000000000
31	0000000000000000000000	31	.0000000000000000000000	17	0000000000000000000000	01	0000000000000000000000	01	0000000000000000000000	01	0000000000000000000000	01	0000000000000000000000	01	.0000000000000000000000
30	00000000000000000000000	30	.00000000000000000000000	16	00000000000000000000000	00	00000000000000000000000	00	00000000000000000000000	00	00000000000000000000000	00	00000000000000000000000	00	.00000000000000000000000
29	000000000000000000000000	29	.000000000000000000000000	15	000000000000000000000000	0	0 1 2 3	0	0 1 2 3	0	0 1 2 3	0	0 1 2 3	0	0 1 2 3
28	0000000000000000000000000	28	.0000000000000000000000000	14	0000000000000000000000000		COLUMN		COLUMN		COLUMN		COLUMN		COLUMN
27	00000000000000000000000000	27	.00000000000000000000000000	13	00000000000000000000000000	78	CONTACTS	70	CONTACTS	54	CONTACTS	52	CONTACTS	40	CONTACTS
26	000000000000000000000000000	26	.000000000000000000000000000	12	000000000000000000000000000										
25	0000000000000000000000000000	25	.0000000000000000000000000000	11	0000000000000000000000000000										
24	00000000000000000000000000000	24	.00000000000000000000000000000	10	00000000000000000000000000000										
23	000000000000000000000000000000	23	.000000000000000000000000000000	09	000000000000000000000000000000										
22	0000000000000000000000000000000	22	.0000000000000000000000000000000	08	0000000000000000000000000000000										
21	00000000000000000000000000000000	21	.00000000000000000000000000000000	07	00000000000000000000000000000000										
20	000000000000000000000000000000000	20	.000000000000000000000000000000000	06	000000000000000000000000000000000										
19	0000000000000000000000000000000000	19	.0000000000000000000000000000000000	05	0000000000000000000000000000000000										
18	00000000000000000000000000000000000	18	.00000000000000000000000000000000000	04	00000000000000000000000000000000000										
17	000000000000000000000000000000000000	17	.000000000000000000000000000000000000	03	000000000000000000000000000000000000										
16	0000000000000000000000000000000000000	16	.0000000000000000000000000000000000000	02	0000000000000000000000000000000000000										
15	00000000000000000000000000000000000000	15	.00000000000000000000000000000000000000	01	00000000000000000000000000000000000000										
14	000000000000000000000000000000000000000	14	.000000000000000000000000000000000000000	00	000000000000000000000000000000000000000										
13	00	13	.00		0 1 2 3										
12	000	12	.000		COLUMN										
11	00	11	.00	11	00	142	CONTACTS								
10	000	10	.000	10	000										
09	00	09	.00	09	00										
08	000	08	.000	08	000										
07	00	07	.00	07	00										
06	000	06	.000	06	000										
05	00	05	.00	05	00										
04	000	04	.000	04	000										
03	00	03	.00	03	00										
02	000	02	.000	02	000										
01	00	01	.00	01	00										
00	000	00	.000	00	000										
	0 1 2 3		0 1 2 3		0 1 2 3										
	COLUMN		COLUMN		COLUMN										
198	CONTACTS	100	CONTACTS												

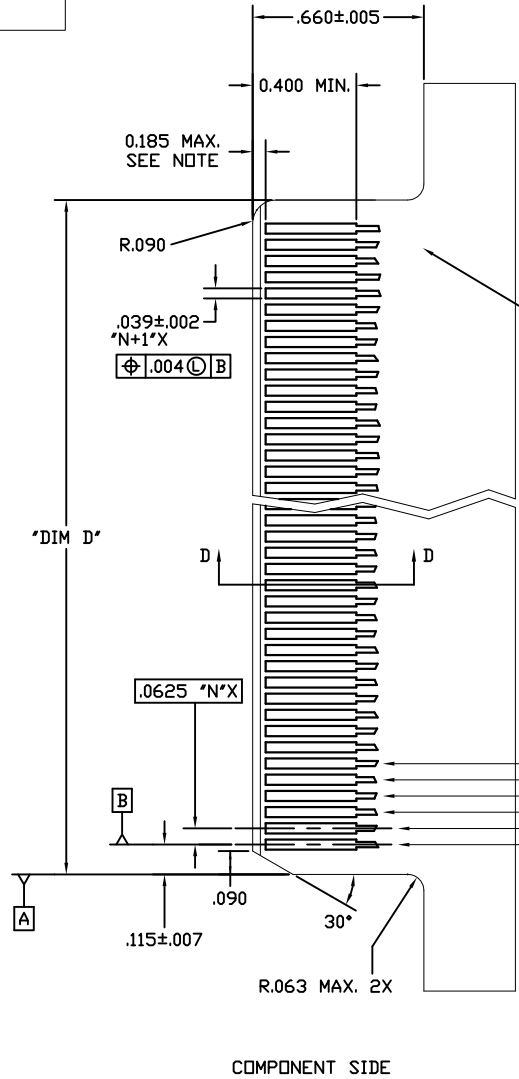
BACKPLANE LAYOUT NOTES:
 RECOMMENDED HOLE SIZE: .039 - .044 PLATED THROUGH HOLE
 .0465 DRILL RECOMMENDED
 BACKPLANE THICKNESS: .086 MINIMUM
 ALL HOLES ARE ON A .125 GRID
 CONTACT POSITIONS ARE DENOTED BY A 3 DIGIT NUMBER AS SHOWN IN THE LAYOUTS.
 THE FIRST NUMBER IS THE COLUMN NUMBER FOLLOWED BY THE 2 DIGIT ROW NUMBER.
 EXAMPLE: POSITION 019 IS IN COLUMN 0 AND ROW 19.
 "+" = UNFILLED INSULATOR CONTACT POSITIONS

ALL CONTACT TAILS ARE
.ON A .125" GRID

mat'l. code		surface ASME Y14.5		tolerance ASME Y14.5		projection		product family FASTECH	
ltr	ecn no	dr	date	tolerances unless otherwise specified		INCH		title 1200 TYPE DOUBLE DENSITY EDGE CARD CONNECTORS	
F				angles	linear	scale NTS		dwg no A87KC4034	
								sheet 5 of 6 size A4	
				dr	R. CONRAD	1999-06-17		type CUSTOMER Drawing	
				engr	R. CONRAD	1999-06-17			
				chr	R. CONRAD	1999-06-17			
				appd	R. CONRAD	1999-06-17			
sheet index	revision sheet								

PRODUCT NUMBER
SEE TABLE

1200 TYPE CONNECTOR RECOMMENDED PRINTED CIRCUIT BOARD LAYOUT

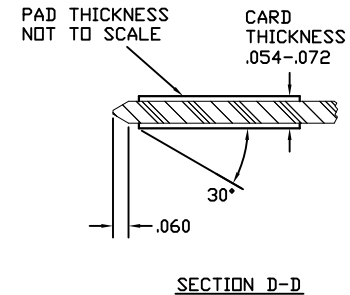


PRINTED CIRCUIT CARD NOTES:

- 1) ALL DIMENSIONS ARE IN INCHES.
- 2) CIRCUIT CARD FINGER PLATING: 25 MICROINCHES HARD GOLD MINIMUM OVER 200 MICROINCHES NICKEL MINIMUM.
- 3) FINGER MAY EXTEND TO THE FRONT OF THE BOARD. SEQUENCING MAY BE ACHIEVED BY STAGGERING THE FRONT EDGE OF THE FINGER BY .045 MINIMUM (.060 RECOMMENDED).
- 4) FINGER LOCATIONS ARE THE SAME ON EACH SIDE OF THE BOARD.

BIAS SLIDE END OF EDGE CARD CONNECTOR

- 003/302
 - 102/202
 - 002/301
 - 101/201
 - 100/200
 - 001/300
- CORRESPONDING CONNECTOR CONTACT POSITIONS COMPONENT/NDN-COMPONENT SIDE SEE SHEET 5



mat'l. code		surface ASME Y14.5		tolerance ASME Y14.5		projection		product family FASTECH		
ltr	ecn no	dr	date	tolerances unless otherwise specified		INCH		title		
F				angles	inches	scale 1:1		1200 TYPE DOUBLE DENSITY EDGE CARD CONNECTORS		
		dr	R. CONRAD	1999-06-17				dwg no		
		engr	R. CONRAD	1999-06-17	sheet 6 of 6			size		
		chr	R. CONRAD	1999-06-17	A87KC4034			A4		
		appd	R. CONRAD	1999-06-17	CUSTOMER Drawing			type		
sheet index	revision sheet									