

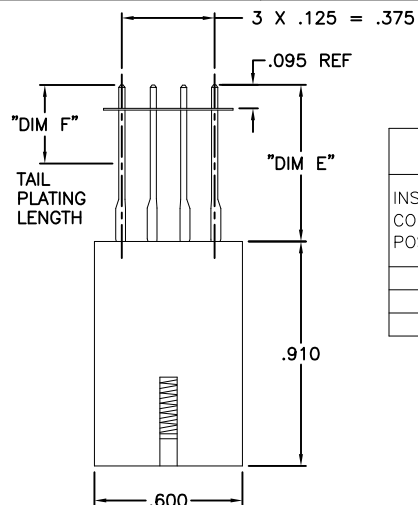
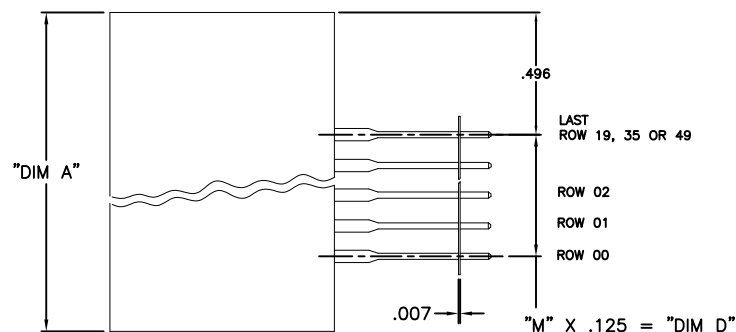
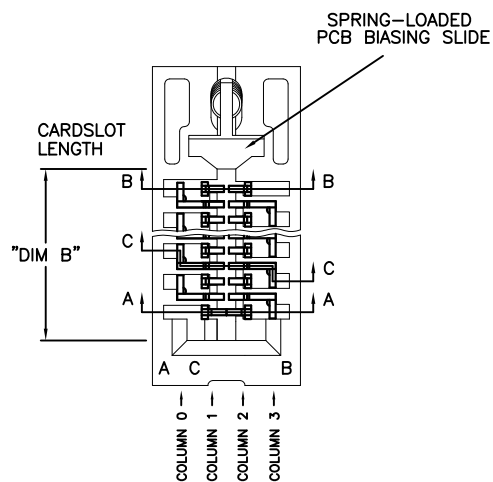
PRODUCT NUMBER
 SEE TABLE


TABLE 1								
INSULATOR CONTACT POSITIONS	OVERALL LENGTH DIM "A"	CARD SLOT LENGTH DIM "B"		TAIL SPAN DIM "C"	CIRCUIT CARD WIDTH DIM "D" +.000/-0.010	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

TABLE 2		
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	ecn no.	dr	date	angles	radius	tolerances unless otherwise specified	INCH	title	
A	V12862	CGD	2002-01-07					1200 TYPE DOUBLE DENSITY	
B	V03-0771	HTB	2003-07-15					EDGE CARD CONNECTORS	
C	V03-1024	TAB	2003-09-11				scale 1:1	dwg no	
D	V05-0149	HTB	2005-03-01	dr	R. CONRAD	1999-06-17		sheet 1 of 6	
E	V06-0647	JRV	2006-07-06	enrg	R. CONRAD	1999-06-17		size	
F	V09-0537	HTB	2009-11-16	chr	R. CONRAD	1999-06-17		A87KC4034	
				appd	R. CONRAD	1999-06-17		type CUSTOMER Drawing	
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							
F				angles	radius						
						scale 1:1					
				dr	R. CONRAD	1999-06-17					
				enrg	R. CONRAD	1999-06-17					
				chr	R. CONRAD	1999-06-17					
				appd	R. CONRAD	1999-06-17					
sheet index		revision sheet								dwg no A87KC4034 type CUSTOMER Drawing	

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.

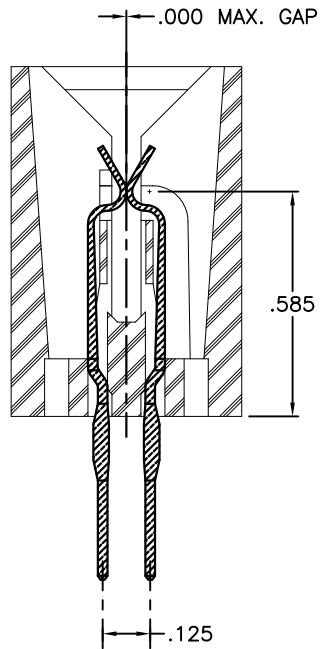
THE CONNECTOR IS TERMINATED TO THE PCB BY INSERTION OF COMPLIANT PRESS-FIT TAILS.

DOUBLE DENSITY EDGE CARD TECHNICAL DATA

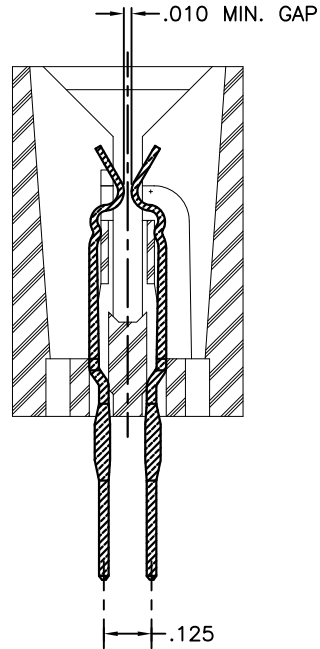
ALL DIMENSIONS ARE IN INCHES.
 CONNECTOR INSTALLATION FORCE: 30 LBS/CONTACT TYPICAL, 65 LBS MAX.
 CONNECTOR RETENTION FORCE: 10 LBS/CONTACT MINIMUM
 CIRCUIT CARD INSERTION FORCE: INNER CONTACTS
 INNER CONTACTS – .5 LBS/CONTACT TYPICAL
 OUTER CONTACTS – .8 LBS/CONTACT TYPICAL
 SHORTING CONTACTS – 1 LB/CONTACT 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		tolerance ASME Y14.5		projection 		product family FASTECH	
ltr	ecr no	dr	date	tolerances unless otherwise specified						title	
F				angles	to	from		INCH		1200 TYPE DOUBLE DENSITY EDGE CARD CONNECTORS	
								scale NTS		dwg no	
				dr	R. CONRAD	1999-06-17				sheet 3 of 6	
				enrg	R. CONRAD	1999-06-17				A4	
				chr	R. CONRAD	1999-06-17				type	
				appd	R. CONRAD	1999-06-17				CUSTOMER Drawing	
sheet index	revision sheet										

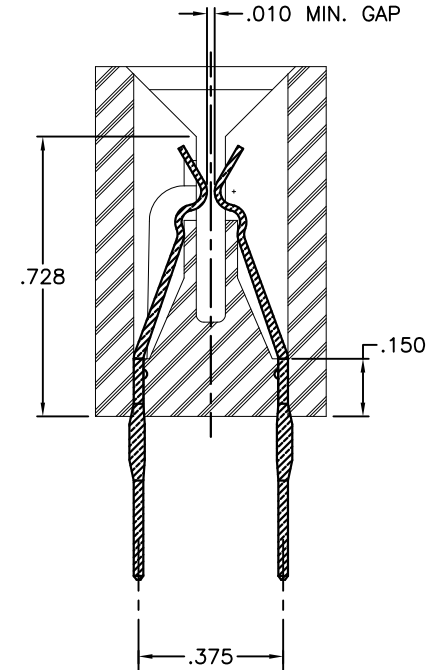
PRODUCT NUMBER
SEE TABLE



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 		product family FASTECH									
ltr	ecr no	dr	date	tolerances unless otherwise specified						title									
F				angles		linear			INCH 		1200 TYPE DOUBLE DENSITY EDGECARD CONNECTORS								
									scale 2:1		dwg no								
				dr	R. CONRAD	1999-06-17			sheet 4 of 6						size				
				enr	R. CONRAD	1999-06-17			A87KC4034						A4				
				chr	R. CONRAD	1999-06-17													
				appd	R. CONRAD	1999-06-17			type						CUSTOMER Drawing				
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

ROW

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

ALL CONTACT TAILS ARE
ON A .125" GRID

19	0000	19	0000	19	0000	19	0000	19	•000
18	00000	18	00000	18	00000	18	00000	18	•000•
17	000000	17	000000	17	000000	17	000000	17	•000••
16	0000000	16	0000000	16	0000000	16	0000000	16	•000•••
15	00000000	15	00000000	15	00000000	15	•000••~	15	•000••~
14	000000000	14	000000000	14	000000000	14	••••~	14	•000••~
13	0000000000	13	0000000000	13	0000000000	13	••••~	13	•000••~
12	00000000000	12	00000000000	12	00000000000	12	••••~	12	•000••~
11	000000000000	11	000000000000	11	••••~	11	••••~	11	•000••~
10	0000000000000	10	••••~	10	••••~	10	••••~	10	•000••~
09	00000000000000	09	••••~	09	••••~	09	••••~	09	•000••~
08	000000000000000	08	000000	08	0000•	08	0000•	08	•000••~
07	0000000000000000	07	00000000	07	00000000	07	00000000	07	•000••~
06	00000000000000000	06	000000000	06	000000000	06	000000000	06	•000••~
05	000000000000000000	05	0000000000	05	0000000000	05	0000000000	05	•000••~
04	0000000000000000000	04	00000000000	04	00000000000	04	00000000000	04	•000••~
03	00000000000000000000	03	000000000000	03	000000000000	03	000000000000	03	•000••~
02	000000000000000000000	02	0000000000000	02	0000000000000	02	0000000000000	02	•000••~
01	0000000000000000000000	01	00000000000000	01	000000000000000	01	000000000000000	01	•000••~
00	00000000000000000000000	00	00000000	00	00000000	00	00000000	00	000•~
0 1 2 3		0 1 2 3		0 1 2 3		0 1 2 3		0 1 2 3	
COLUMN		COLUMN		COLUMN		COLUMN		COLUMN	
78 CONTACTS		70 CONTACTS		54 CONTACTS		52 CONTACTS		40 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

mat'l. code				surface		tolerance		pro			
				ASME Y14.5 ✓		ASME Y14.5					
lit				ecn no				dr			
date				tolerances unless otherwise specified							
F				angles				line dr			
				dr				R. CONRAD			
								1999-06-17			
				END				R. CONRAD			
								1999-06-17			

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.

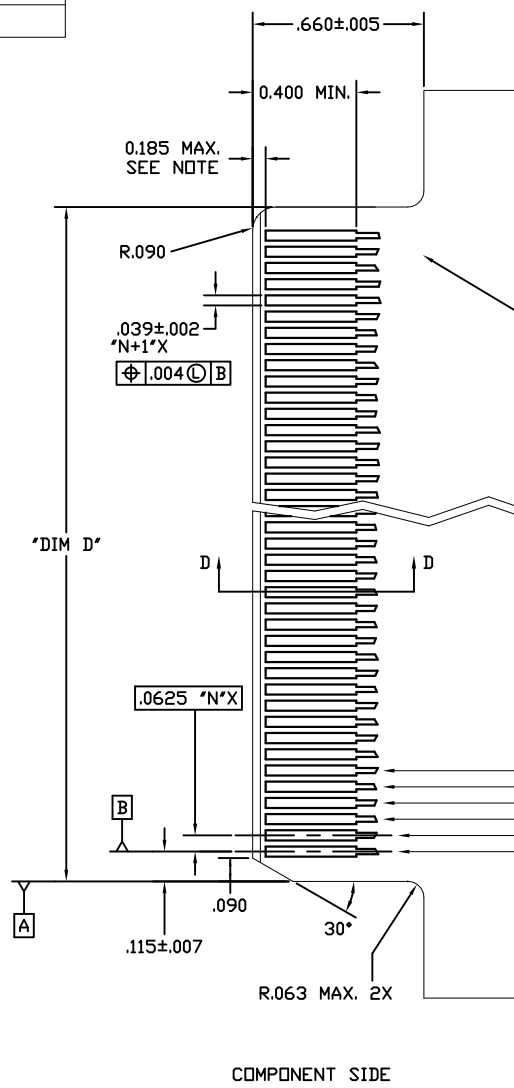
"•" = UNFILLED INSULATOR CONTACT POSITIONS

 ALL CONTACT TAILS ARE
 .0N A .125" GRID

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	fin			1200 TYPE DOUBLE DENSITY EDGE CARD CONNECTORS	
							scale NTS	dwg no	
				dr	R. CONRAD	1999-06-17	FCI	sheet 5 of 6	
				engr	R. CONRAD	1999-06-17		A87KC4034	
				chr	R. CONRAD	1999-06-17		size	
				appd	R. CONRAD	1999-06-17		CUSTOMER Drawing	
sheet index	revision sheet								

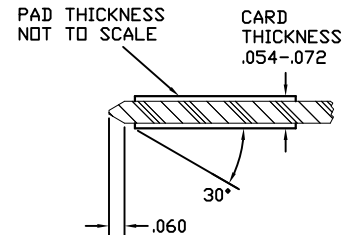
1200 TYPE CONNECTOR RECOMMENDED PRINTED CIRCUIT BOARD LAYOUT

PRODUCT NUMBER
SEE TABLE



003/302
102/202
002/301
101/201
100/200
001/300

CORRESPONDING CONNECTOR
CONTACT POSITIONS
COMPONENT/NON-COMPONENT SIDE
SEE SHEET 5



SECTION D-D

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