

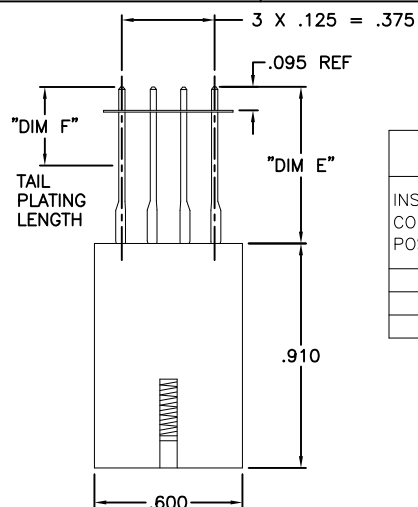
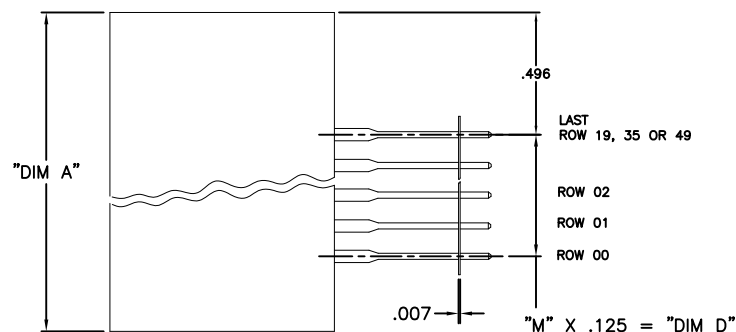
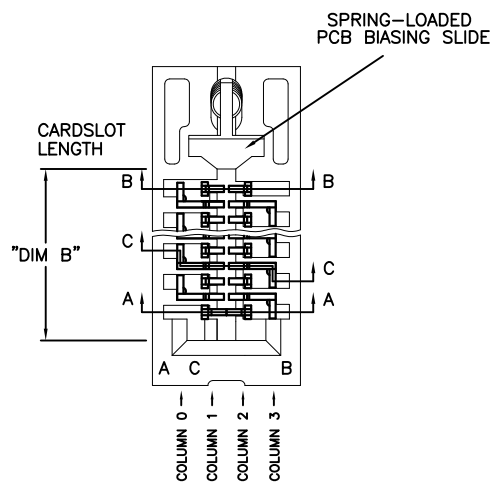




PRODUCT NUMBER  
 SEE TABLE


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	ecr no	dr	date	tolerances unless otherwise specified						title				
A	V12862	CGD	2002-01-07	angles						1200 TYPE DOUBLE DENSITY EDGE CARD CONNECTORS				
B	V03-0771	HTB	2003-07-15											
C	V03-1024	TAB	2003-09-11											
D	V05-0149	HTB	2005-03-01	dr		R. CONRAD	1999-06-17			dwg no				
E	V06-0647	JRV	2006-07-06	engr		R. CONRAD	1999-06-17			sheet 1 of 6				
F	V09-0537	HTB	2009-11-16	chr		R. CONRAD	1999-06-17			A87KC4034				
				appd		R. CONRAD	1999-06-17			A				
sheet index		revision	F	F	F	F	F	type						
		sheet	1	2	3	4	5	CUSTOMER Drawing						



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				title		1200 TYPE DOUBLE DENSITY EDGE CARD CONNECTORS	
F				angles	fin	ing		INCH		sheet 2 of 6	
								scale 1:1		size	
				dr	R. CONRAD	1999-06-17				dwg no	
				enrg	R. CONRAD	1999-06-17	A87KC4034				
				chr	R. CONRAD	1999-06-17	CUSTOMER Drawing				
				appd	R. CONRAD	1999-06-17					
sheet index		revision sheet									

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.

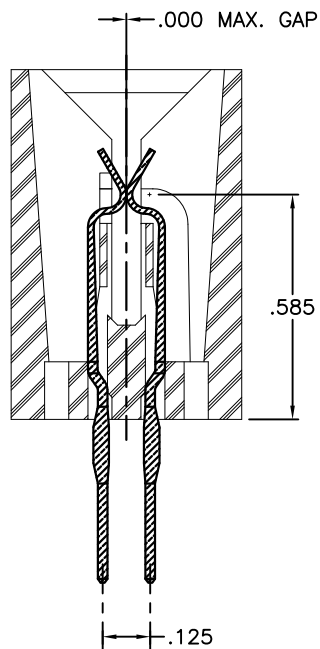
DOUBLE DENSITY EDGE CARD TECHNICAL DATA

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							
F				angles	to	from	INCH		 title <b>1200 TYPE DOUBLE DENSITY EDGE CARD CONNECTORS</b>		
							scale NTS				
				dr	R. CONRAD	1999-06-17			dwg no		sheet 3 of 6
				enrg	R. CONRAD	1999-06-17			A87KC4034		size A4
				chr	R. CONRAD	1999-06-17			type		CUSTOMER Drawing
				appd	R. CONRAD	1999-06-17					
sheet index	revision sheet										

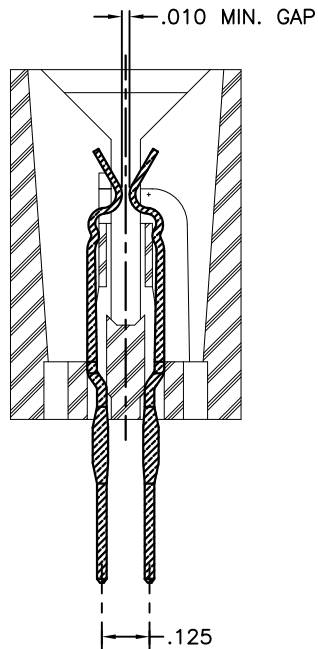
PRODUCT NUMBER

SEE TABLE



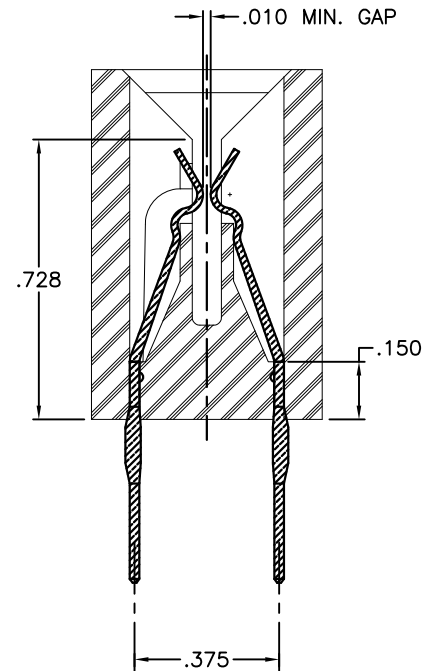
SHORTING CONTACTS

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 FIRST ANGLE	product family FASTECH	
ltr	ecr no	dr	date	tolerances unless otherwise specified			title	
F				angles	fin	INCH	1200 TYPE DOUBLE DENSITY EDGECARD CONNECTORS	
						scale 2:1	dwg no	
				dr	R. CONRAD	1999-06-17	sheet 4 of 6	
				enr	R. CONRAD	1999-06-17	size	
				chr	R. CONRAD	1999-06-17	A87KC4034	
				appd	R. CONRAD	1999-06-17	type	
sheet	revision						CUSTOMER Drawing	
index	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	•000	35	0000	19	0000	19	0000	19	0000	19	•000
48	00000	48	•000•	34	00000	18	00000	18	00000	18	00000	18	•000•
47	000000	47	•000•	33	000000	17	000000	17	000000	17	000000	17	•000•
46	000000	46	•000•	32	000000	16	000000	16	000000	16	000000	16	•000•
45	000000	45	•000•	31	000000	15	000000	15	000000	15	•000•	15	•000•
44	000000	44	•000•	30	000000	14	000000	14	000000	14	••••	14	•000•
43	000000	43	•000•	29	000000	13	000000	13	000000	13	••••	13	•000•
42	000000	42	•000•	28	000000	12	000000	12	000000	12	••••	12	•000•
41	000000	41	•000•	27	000000	11	000000	11	••••	11	••••	11	•000•
40	000000	40	•000•	26	000000	10	000000	10	••••	10	••••	10	•000•
39	000000	39	•000•	25	000000	09	000000	09	••••	09	••••	09	•000•
38	000000	38	•000•	24	000000	08	000000	08	••••	08	0000•	08	•000•
37	000000	37	•000•	23	000000	07	000000	07	000000	07	000000	07	•000•
36	000000	36	•000•	22	000000	06	000000	06	000000	06	000000	06	•000•
35	000000	35	•000•	21	000000	05	000000	05	000000	05	000000	05	•000•
34	000000	34	•000•	20	000000	04	000000	04	000000	04	000000	04	•000•
33	000000	33	•000•	19	000000	03	000000	03	000000	03	000000	03	•000•
32	000000	32	•000•	18	000000	02	000000	02	000000	02	000000	02	•000•
31	000000	31	•000•	17	000000	01	000000	01	000000	01	000000	01	•000•
30	000000	30	•000•	16	000000	00	000000	00	000000	00	000000	00	•000•
29	000000	29	•000•	15	000000	0	1 2 3	0	1 2 3	0	1 2 3	0	1 2 3
28	000000	28	•000•	14	000000		COLUMN		COLUMN		COLUMN		COLUMN
27	000000	27	•000•	13	000000	78	CONTACTS	70	CONTACTS	54	CONTACTS	52	CONTACTS
26	000000	26	•000•	12	000000								
25	000000	25	•000•	11	000000								
24	000000	24	•000•	10	000000								
23	000000	23	•000•	09	000000								
22	000000	22	•000•	08	000000								
21	000000	21	•000•	07	000000								
20	000000	20	•000•	06	000000								
19	000000	19	•000•	05	000000								
18	000000	18	•000•	04	000000								
17	000000	17	•000•	03	000000								
16	000000	16	•000•	02	000000								
15	000000	15	•000•	01	000000								
14	000000	14	•000•	00	000000								
13	000000	13	•000•		0 1 2 3								
12	000000	12	•000•		COLUMN								
11	000000	11	•000•	142	CONTACTS								
10	000000	10	•000•										
09	000000	09	•000•										
08	000000	08	•000•										
07	000000	07	•000•										
06	000000	06	•000•										
05	000000	05	•000•										
04	000000	04	•000•										
03	000000	03	•000•										
02	000000	02	•000•										
01	000000	01	•000•										
00	000000	00	•000•										
	0 1 2 3		0 1 2 3		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		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.

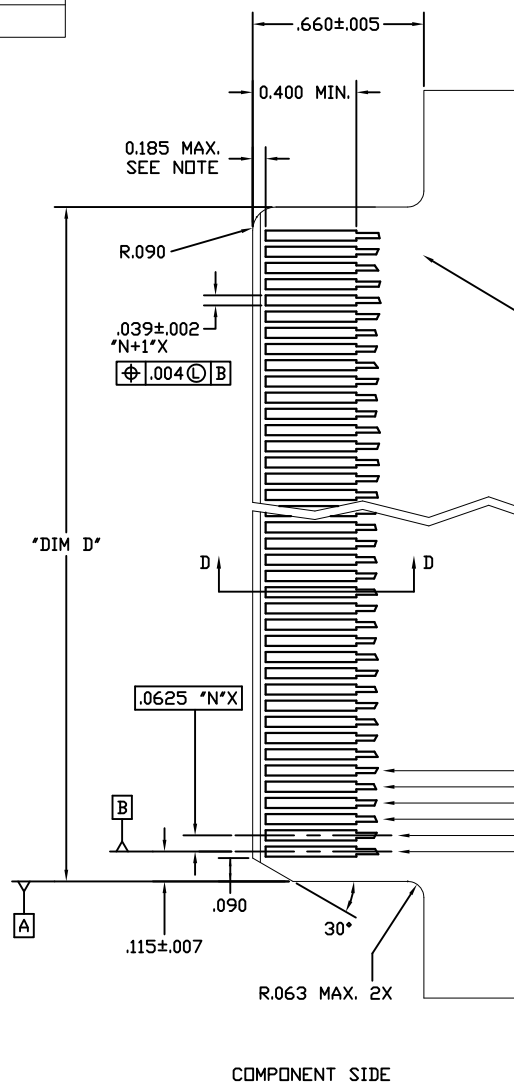
"•" = UNFILLED INSULATOR CONTACT POSITIONS

ALL CONTACT TAILS ARE  
ON A .125" GRID

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

## 1200 TYPE CONNECTOR RECOMMENDED PRINTED CIRCUIT BOARD LAYOUT

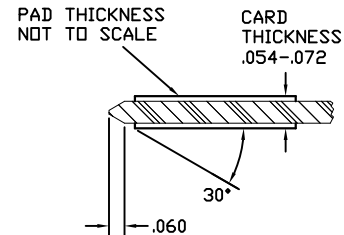
PRODUCT NUMBER  
SEE TABLE



## 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



## SECTION D-D

mat'l. code				surface	tolerance	projection	product family	
ltr				ecr no	dr	date	FASTTECH	
F				tolerances unless otherwise specified			title	
				angles	dr	date	1200 TYPE DOUBLE DENSITY	
					enr	date	EDGE CARD CONNECTORS	
					chr	date	dwg no	
					appd	date	sheet 6 of 6	
							size	
							A4	
							type	
							CUSTOMER Drawing	
sheet	revision							
index	sheet							