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PRODUCT NUMBER
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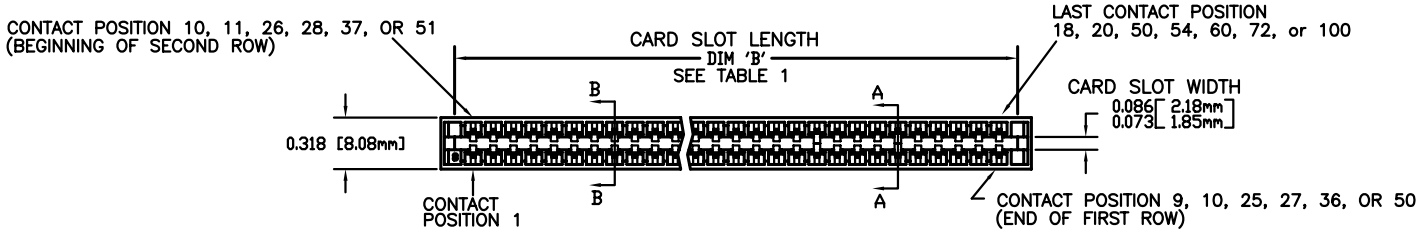
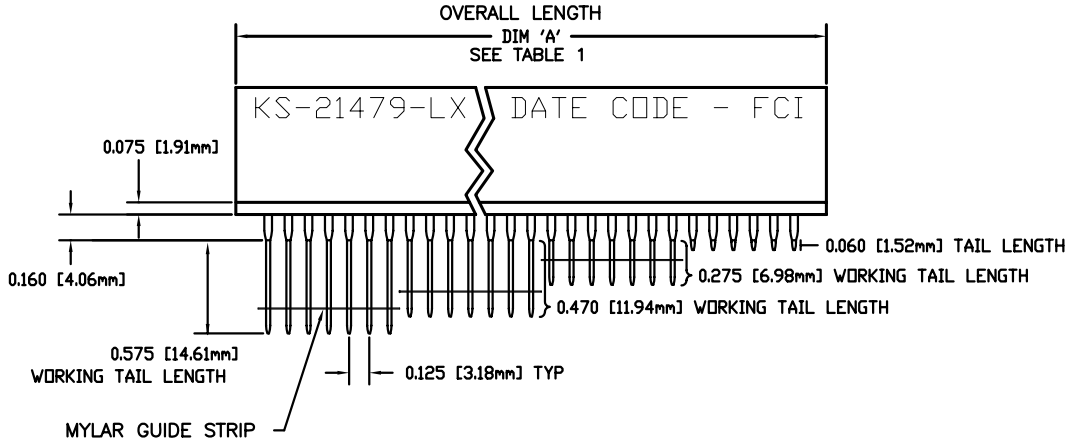
1203 TYPE SINGLE DENSITY EDGECARD CONNECTORS
PRESS-FIT CONTACTS ON .125" CENTERS
18 TO 100 POSITONS AVAILABLE IN EARLY MAKE, LATE MAKE, AND SHORTING CONTACTS
CONTACTS AVAILABLE IN 4 TAIL LENGTHS (.0.025" SQUARE) WITH GOLD OR SOLDER PLATING





mat'l code				surface ASME Y14.5		tolerance ASME Y14.5		projection	product family FASTECH
ltr	ecn no	dr	date	tolerances unless otherwise specified					title
A	V12880	CGD	1/25/02	angles	linear			INCH/MM	SINGLE DENSITY EDGECARD
B	V03-0687	HTB	6/18/03						1203 TYPE CONNECTORS
C	V05-0151	HTB	3/2/05					scale N/A	
D	V05-0609	HTB	6/23/05	dr	R. CONRAD	5/27/99			dwg no A89KC4205 sheet 1 of 6 size A4
E	V05-0904	HTB	9/21/05	engr	R. CONRAD	5/27/99			
F	V06-0719	JRV	2006-07-26	chr	R. CONRAD	5/27/99			
G	V06-0985	HTB	2006-09-25	appd	R. CONRAD	5/27/99			type CUSTOMER Drawing

sheet	revision	G	G	G	G	G	G
index	sheet	1	2	3	4	5	6

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SINGLE DENSITY EDGECARD TECHNICAL DATA

CONNECTOR INSTALLATION FORCE: 30 LBS/CONTACT TYPICAL, 65 LBS MAX.
CONNECTOR RETENTION FORCE: 10 LBS/CONTACT MINIMUM
CIRCUIT CARD INSERTION FORCE: EARY AND LATE MAKE CONTACT – 0.5 LBS/CONTACT TYPICAL
SHORTING CONTACT – 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: 1000VAC RMS
CONTACT AREA PLATING: 75u" Au (MIN) OVER 100u" Ni (MIN).
CONTACT NORMAL FORCE: 100 GRAMS MINIMUM.
CONTACT RESISTANCE: 9 MILLIOHMS TYPICAL.
MAX CONTACT CURRENT: 1.0 AMPS PER CONTACT.
INSULATOR MATERIAL: PPA, GLASS REINFORCED
FLAMMABILITY RATING: UL–94 V0.

TABLE 1

CONNECTOR SIZE (TOTAL CONTACTS)	SPACES "N"	OVERALL LENGTH DIM "A"	CARD SLOT LENGTH DIM "B"	CIRCUIT CARD WIDTH DIM 'C'	FCI INSERTION TOOL
18 (2 X 9)	8	1.400 [35.56mm]	1.230 [31.24mm]	1.220 [30.99mm]	413656–001
20 (2 X 10)	9	1.525 [38.74mm]	1.355 [34.42mm]	1.345 [34.16mm]	
50 (2 X 25)	24	3.400 [86.36mm]	3.230 [82.04mm]	3.220 [81.79mm]	413697–001
54 (2 X 27)	26	3.650 [92.71mm]	3.480 [88.39mm]	3.470 [88.14mm]	413692–001
60 (2 x 30)	29	4.025 [102.24mm]	3.855 [97.92mm]	3.845 [97.66mm]	413680–001
72 (2 X 36)	35	4.775 [121.29mm]	4.605 [116.97mm]	4.595 [116.71mm]	
100 (2 X 50)	49	6.525 [165.74mm]	6.355 [161.42mm]	6.345 [161.16mm]	413688–001

mat'l. code				surface ASME Y14.5	tolerance ASME Y14.5	projection	product family
				tolerances unless otherwise specified			FASTECH
ltr	ecn no	dr	date	angles / linear			title
G						INCH/MM	SINGLE DENSITY EDGECARD
							1203 TYPE CONNECTORS
						scale N/A	
				dr	R. CONRAD 5/27/99		dwg no A89KC4205 sheet 2 of 6 size A4
				engr	R. CONRAD 5/27/99		
				chr	R. CONRAD 5/27/99		
				appd	R. CONRAD 5/27/99		type CUSTOMER Drawing
sheet index	revision sheet						

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FCI PART NUMBER	1203 CODE	KS-21479 LIST #	SIZE		EARLY	LATE	SHORTING TAIL LENGTH	TAIL PLATING	EARLY MAKE POSITIONS	LATE MAKE POSITIONS	SHORTING POSITIONS
1203-L01	A01	1						NOT	AVAILABLE		
1203-L13	A02	13						NOT	AVAILABLE		
1203-L27	A03	27						NOT	AVAILABLE		
1203-L31	A04	31	100	100	–	–	0.470	SnPb	1-100		
1203-L39	A05	39						NOT	AVAILABLE		
1203-L41	A06	41						NOT	AVAILABLE		
1203-L43	A07	43						NOT	AVAILABLE		
1203-L47	A08	47						NOT	AVAILABLE		
1203-L02	B01	2						NOT	AVAILABLE		
1203-L14	B02	14						NOT	AVAILABLE		
1203-L15	B03	15						NOT	AVAILABLE		
1203-L16	B04	16						NOT	AVAILABLE		
1203-L17	B05	17						NOT	AVAILABLE		
1203-L26	B06	26						NOT	AVAILABLE		
1203-L29	B07	29						NOT	AVAILABLE		
1203-L04	C01	4						NOT	AVAILABLE		
1203-L23	C02	23						NOT	AVAILABLE		
1203-L24	C03	24						NOT	AVAILABLE		
1203-L28	C04	28						NOT	AVAILABLE		
1203-L30	C05	30	50	50	–	–	0.470	SnPb	1-50		
1203-L32	C06	32						NOT	AVAILABLE		
1203-L33	C07	33						NOT	AVAILABLE		
1203-L40	C08	40						NOT	AVAILABLE		
1203-L42	C09	42						NOT	AVAILABLE		
1203-L46	C10	46	50	50	–	–	0.060	SnPb	1-50		
1203-L06	D01	6	54	27	27	–	0.470	SnPb	1-27	28-54	
1203-L07	D02	7	54	25	25	4	0.470	SnPb	1-17, 19-21, 23-27	28-44, 46-48, 50-54	18, 22, 45, 49
1203-L08	D03	8						NOT	AVAILABLE		
1203-L09	D04	9						NOT	AVAILABLE		
1203-L10	D05	10						NOT	AVAILABLE		
1203-L11	D06	11						NOT	AVAILABLE		
1203-L12	D07	12						NOT	AVAILABLE		
1203-L19	D08	19						NOT	AVAILABLE		
1203-L20	D09	20						NOT	AVAILABLE		
1203-L21	D10	21						NOT	AVAILABLE		
1203-L22	D11	22						NOT	AVAILABLE		
1203-L25	D12	25						NOT	AVAILABLE		
1203-L35	D13	35						NOT	AVAILABLE		
1203-L36	D14	36						NOT	AVAILABLE		
1203-L37	D15	37						NOT	AVAILABLE		
1203-L38	D16	38						NOT	AVAILABLE		
1203-D17	D17	–						NOT	AVAILABLE		
1203-D18	D18	–						NOT	AVAILABLE		
1203-L34	E01	34						NOT	AVAILABLE		
1203-L05	F01	5						NOT	AVAILABLE		
1203-L44	G01	44						NOT	AVAILABLE		
1203-L45	G02	45						NOT	AVAILABLE		

* 1203-D03 (L08) HAS HEAVY GOLD PLATING (300 MICROINCHES) ON THE CONTACT SURFACE.

TABLE 2
SINGLE DENSITY EDGECARD CONNECTOR
INFORMATION CHART

mat'l. code	surface ASME Y14.5	tolerance ASME Y14.5	projection
ltr / ecn no / dr / date	tolerances unless otherwise specified		
G	angles / linear		INCH/MM
			scale N/A
	dr R. CONRAD 5/27/99		
	engr R. CONRAD 5/27/99		
	chr R. CONRAD 5/27/99		
	appd R. CONRAD 5/27/99		
sheet index / revision sheet			

product family: FASTECH		
title: SINGLE DENSITY EDGECARD 1203 TYPE CONNECTORS		
dwg no: A89KC4205	sheet 3 of 6	size: A4
type: CUSTOMER Drawing		

form: A4mmXLc

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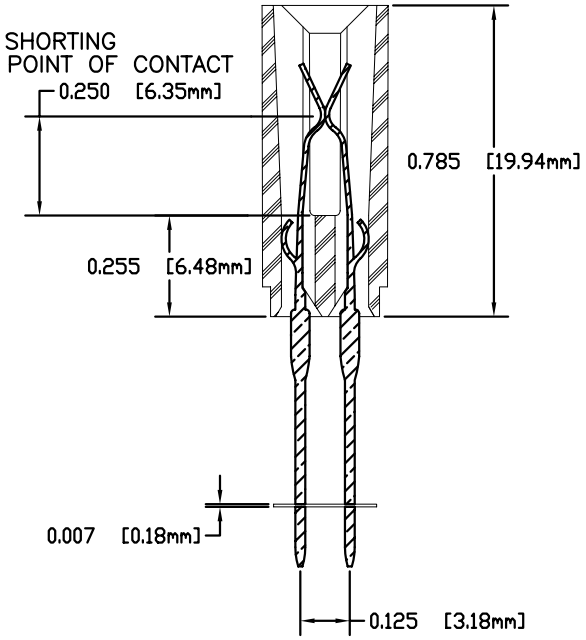
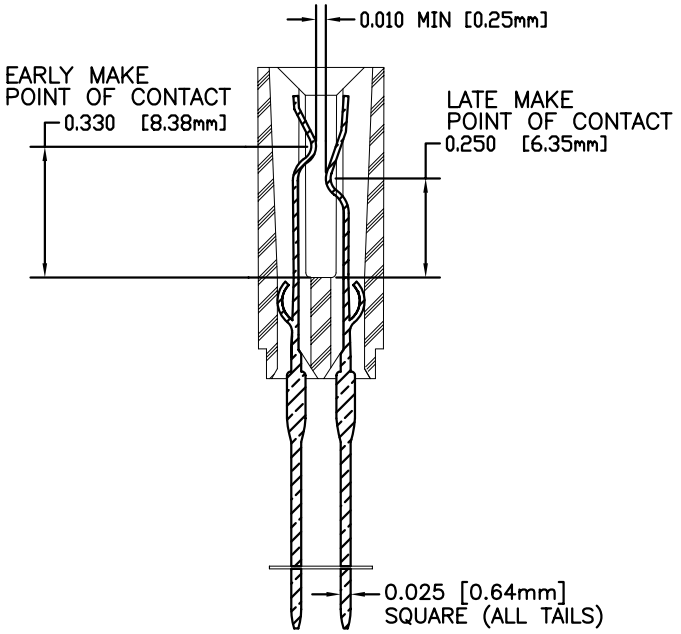


SHORTING CONTACTS

SECTION A–A



EARLY AND LATE MAKE CONTACTS

SECTION B–B

mat'l. code				surface ASME Y14.5		tolerance ASME Y14.5		projection		product family FASTECH					
ltr	ecn no	dr	date	tolerances unless otherwise specified						title SINGLE DENSITY EDGECARD 1203 TYPE CONNECTORS					
G				angles	linear			INCH/MM							
								scale 1:1							
				dr	R. CONRAD	5/27/99		FCI		dwg no A89KC4205		sheet 4 of 6		size A4	
				engr	R. CONRAD	5/27/99									
				chr	R. CONRAD	5/27/99									
				appd	R. CONRAD	5/27/99				type CUSTOMER Drawing					
sheet index	revision sheet														

form: A4mmXLc

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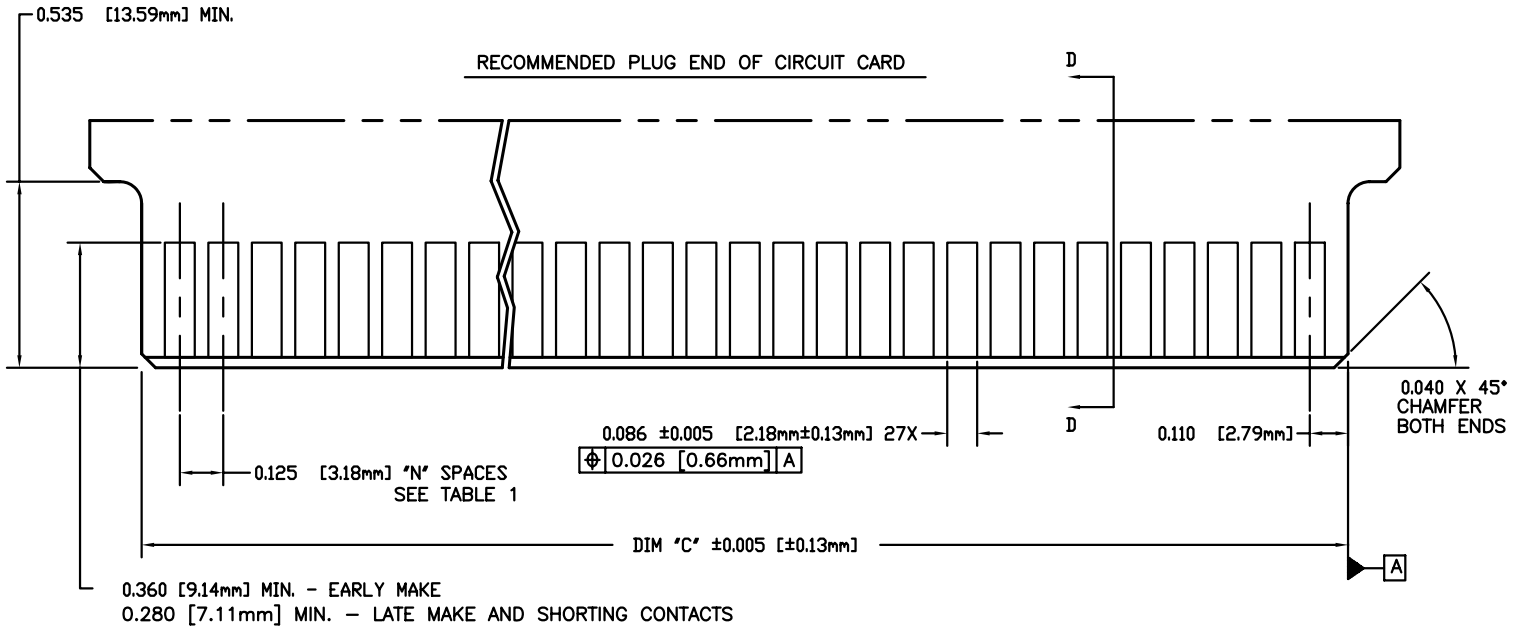
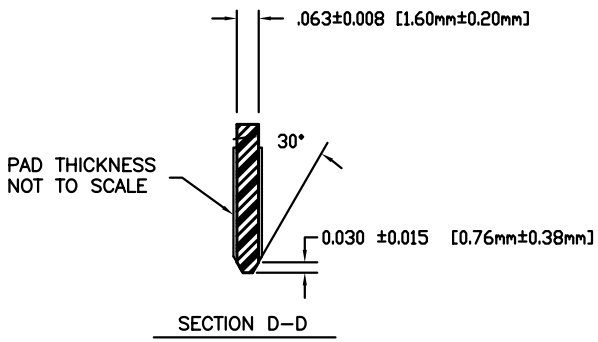


RECOMMENDED CIRCUIT CARD PLATING: 25u" (MIN.) COBALT HARDENED GOLD OVER 200u" (MIN.) NICKEL.



mat'l. code				surface ASME Y14.5	tolerance ASME Y14.5	projection	product family: FASTECH				
ltr	ecn no	dr	date	tolerances unless otherwise specified			title: SINGLE DENSITY EDGECARD 1203 TYPE CONNECTORS				
G				angles / linear		INCH/MM					
						scale 1:1					
				dr	R. CONRAD	5/27/99	dwg no: A89KC4205	sheet 5 of 6	size: A4		
				engr	R. CONRAD	5/27/99					
				chr	R. CONRAD	5/27/99					
				appd	R. CONRAD	5/27/99	type: CUSTOMER Drawing				
sheet index	revision sheet										

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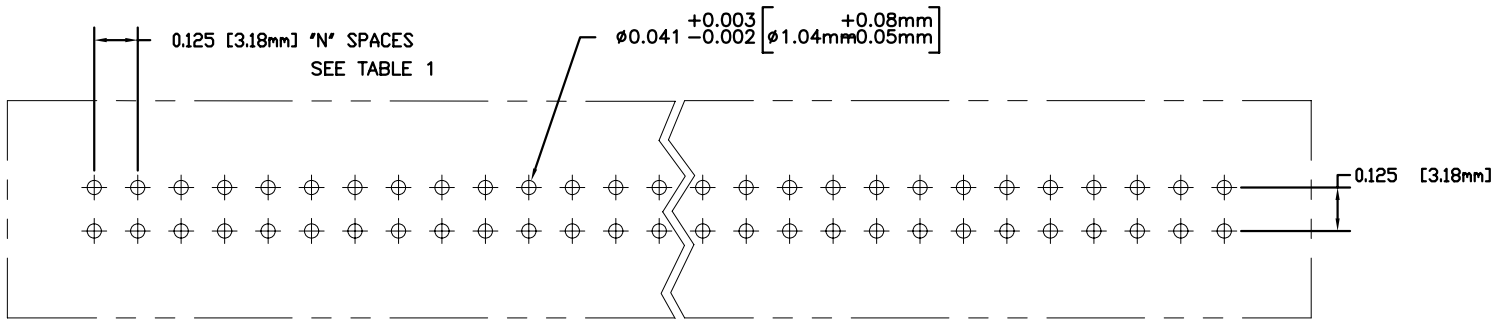
RECOMMENDED BACKPLANE HOLE LAYOUT



RECOMMENDED DRILL: .0465 [1.18mm]
BACKPLANE THICKNESS: .086 [2.18mm] MINIMUM.

mat'l. code				surface ASME Y14.5	tolerance ASME Y14.5	projection	product family
ltr	ecn no	dr	date	tolerances unless otherwise specified			FASTECH
G				angles / linear		INCH/MM	title: SINGLE DENSITY EDGECARD 1203 TYPE CONNECTORS
						scale 1:1	
				dr	R. CONRAD 5/27/99		dwg no A89KC4205 sheet 6 of 6 size A4
				engr	R. CONRAD 5/27/99		
				chr	R. CONRAD 5/27/99		
				appd	R. CONRAD 5/27/99		type CUSTOMER Drawing
sheet index	revision sheet						

form: A4mmXLc

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