

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0481912000
Status: Active
Overview:
Description: 0.80mm (.031") Pitch Edge Card Connector, Vertical, SMT, 80 Circuits, 0.38µm (15µ") Gold (Au) Plating, with Pegs, Lead Free

Agency Certification

CSA LR 19980
UL E29179

General

Product Family Edge Card Connectors
Series 48191
Component Type Edgecard to PCB
Overview edge_card_connectors
Product Name Edge Card

Physical

Circuits (Loaded) 80
Circuits (maximum) 80
Circuits Detail All Signal
Durability (mating cycles max) 100
Entry Angle Vertical (Top Entry)
Flammability 94V-0
Keying to Mating Part Yes
Material - Plating Mating Gold
Material - Plating Termination Tin
PCB Locator Yes
PCB Retention Yes
Packaging Type Tube
Pitch - Mating Interface (in) 0.031 In
Pitch - Mating Interface (mm) 0.80 mm
Pitch - Term. Interface (in) 0.031 In
Pitch - Term. Interface (mm) 0.80 mm
Plating min: Mating (µin) 15
Plating min: Mating (µm) 0.38
Plating min: Termination (µin) 100
Plating min: Termination (µm) 2.50
Temperature Range - Operating -40°C to +105°C
Termination Interface: Style Surface Mount

Electrical

Current - Maximum per Contact 1.7A
Voltage - Maximum 400V AC

Material Info

Reference - Drawing Numbers

Packaging Specification PK-48191-001
Product Specification PS-48191-001
Sales Drawing SD-48191-001
Test Summary TS-48191-001

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status

China RoHS



Not Reviewed

Need more information on product environmental compliance?

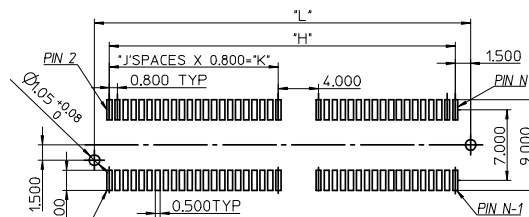
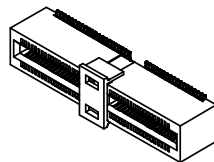
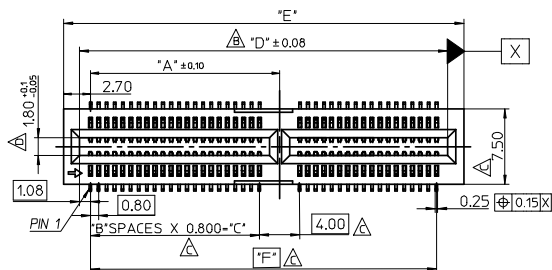
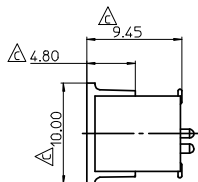
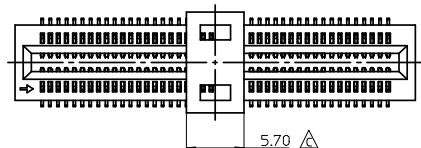
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
48191Series

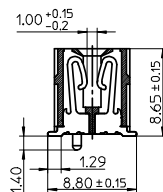
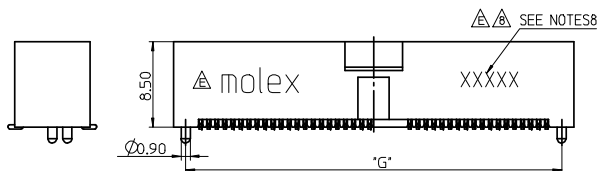
Mates With
1.60mm (.063") Thick Edge Card Module

10 9 8 7 6 5 4 3 2 1



POSITION	"H"	"J"	"K"	"L"
80ckt	34,400	21	16,800	37,400
120ckt	50,400	31	24,800	53,400
140ckt	58,400	36	28,800	61,400
200ckt	82,400	51	40,800	85,400

RECOMMENDED PCB LAYOUT



NOTES:

1. MATERIAL:
HOUSING: LIQUID CRYSTAL POLYMER 30% GLASS FIBER UL 94V-0 RATED
COLOR: BLACK
CONTACT: PHOSPHOR BRONZE.
2. PLATING:
TERMINAL :
CONTACT AREA: SEE TABLE
SOLDER TAIL AREA : 100 MICROINCH MIN. TIN OVER 50 MICROINCH MIN. NICKEL.OVERALL
3. PRODUCT SPECIFICATION: PS-48191-001
4. PACKAGING SPECIFICATION: PK-48191-001
5. TEST SUMMARY : TS-48191-001
6. COPLANARITY SHOULD BE 0.1mm MAX

7. LEAD FREE AND ROHS COMPLIANCE PRODUCT.
DATE CODE:XX<YEAR> XX<WEEK> X<LOCATION>

No OF POS	"A"	"B"	"C"	"D"	"E"	"F"	"G"
80ckt	18,80	21	16,80	36,55	39,80	34,40	37,40
120ckt	26,80	31	24,80	52,55	55,80	50,40	53,40
140ckt	30,80	36	28,80	60,55	63,80	58,40	61,40
200ckt	42,80	51	40,80	84,55	87,80	82,40	85,40

48191-6000	200	GOLD 15 MICROINCH
48191-4000	140	GOLD 15 MICROINCH
48191-3000	120	GOLD 15 MICROINCH
48191-2000	80	GOLD 15 MICROINCH
MOLEX P/N	CKT	CONTACT PLATING

ib_frame_A3_P_AM_T
Rev. E 2006/04/15

REMOVE MATERIAL NO.
EC NO: SH2008-0651
2008/06/25
DRWN:LIU10
CHKD:YLZHU
APPR:HWANG
2008/08/07

QUALITY SYMBOLS
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.25	± ---

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY	DATE	TITLE
TOM	2005/10/15	0.8MM EDGE CARD CONNECTOR SMT TYPE
CHECKED BY	DATE	
ALLEN	2005/10/15	
APPROVED BY	DATE	
WILSON	2005/10/15	

MATERIAL NO.
SEE TABLE

SCALE
1:1

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

MOLEX INCORPORATED
SD-48191-001

SHEET NO.
1 OF 3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

F

E

D

C

B

A

F

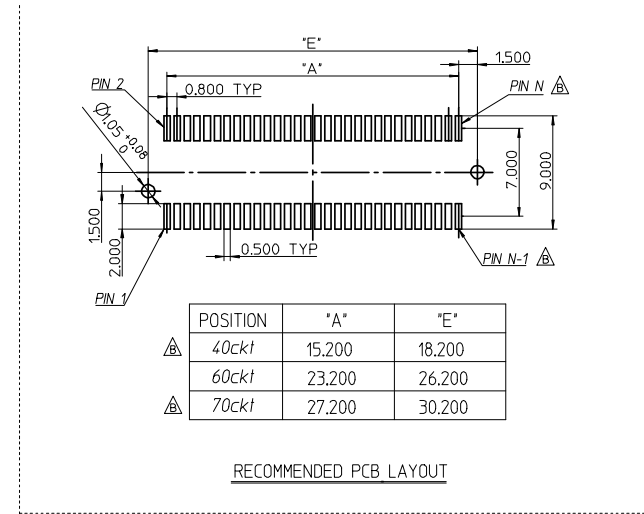
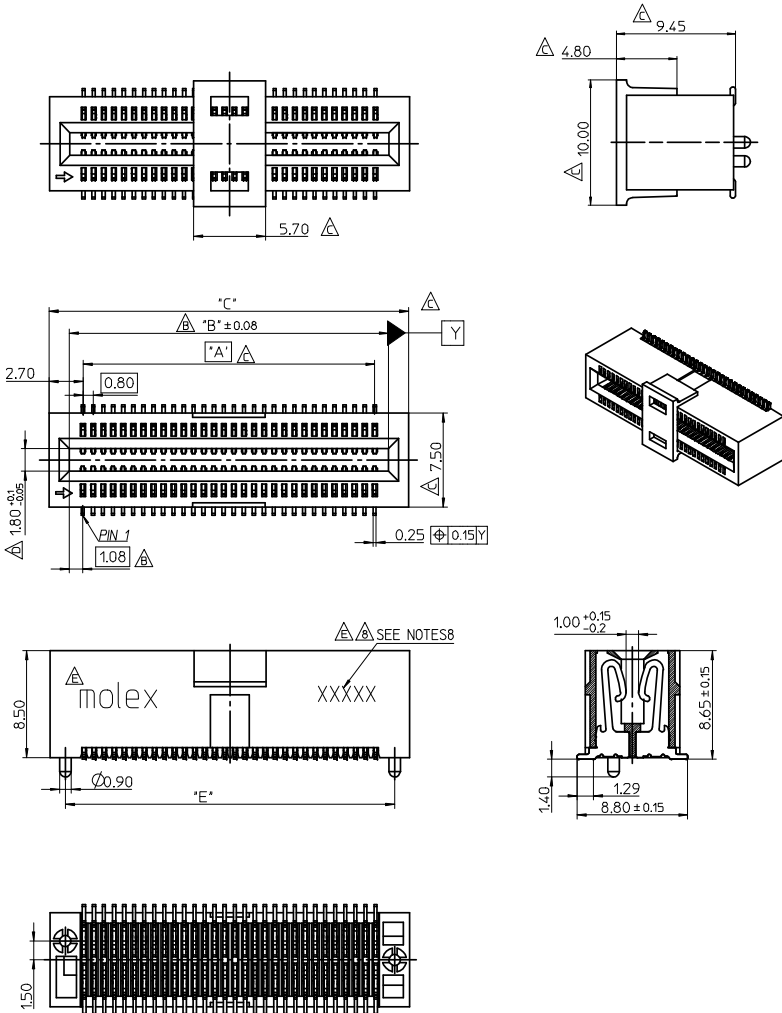
E

D

C

B

A



No OF POS	A	B	C	E
40ckt	15.20	17.35	20.60	18.20
60ckt	23.20	25.35	28.60	26.20
70ckt	27.20	29.35	32.60	30.20

48191-5000	70	GOLD 15 MICROINCH
48191-1000	60	GOLD 15 MICROINCH
48191-7000	40	GOLD 15 MICROINCH
MOLEX P/N	CKT	CONTACT PLATING

REMOVE MATERIAL NO.
EC NO: SH2008-0651
TIDRWLLIU10 2008/06/20
CHKD:YLZHU 2008/06/25
APPR:HWANG 2008/08/07

DESCRIPTION
REV

QUALITY SYMBOLS
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± ---
2 PLACES ± 0.25 ± ---
1 PLACE ± 0.25 ± ---
ANGULAR ± 3 °
DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY
DRAWN BY TOM DATE 2005/10/15
CHECKED BY ALLEN DATE 2005/10/15
APPROVED BY WILSON DATE 2005/10/15
MATERIAL NO.
SEE TABLE

SCALE
1:1

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

0.8MM EDGE CARD CONNECTOR SMT TYPE

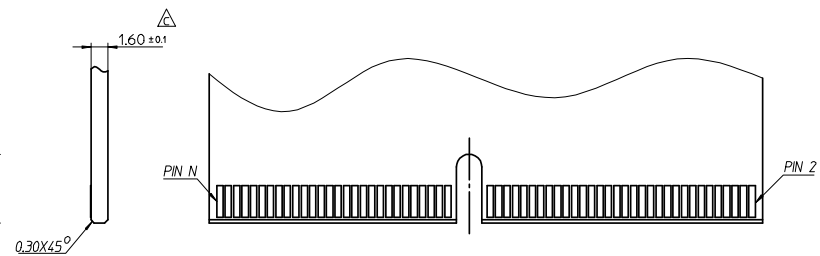
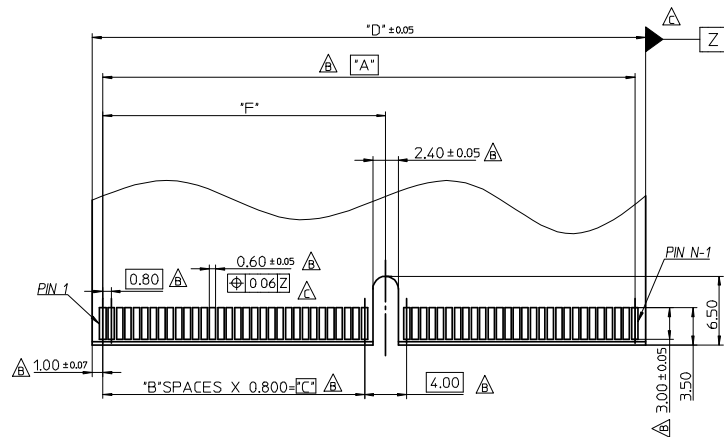
MOLEX INCORPORATED

SD-48191-001

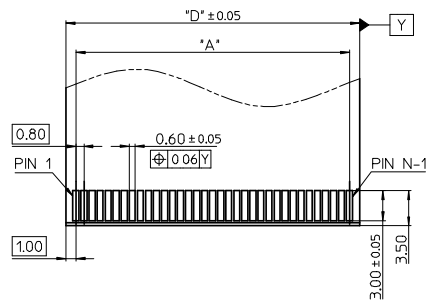
SHEET NO.
2 OF 3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

△ RECOMMENDED PCB MODULE LAYOUT (FOR 80~200CKT)



▽ △ RECOMMENDED PCB MODULE LAYOUT (FOR 40~70CKT)



POSITION	"A"	"B"	"C"	"D"	"F"
40ckt	15.200	N/A	N/A	17.200	N/A
60ckt	23.200	N/A	N/A	25.200	N/A
70ckt	27.200	N/A	N/A	29.200	N/A
80ckt	34.400	21	16.800	36.400	18.800
120ckt	50.400	31	24.800	52.400	26.800
140ckt	58.400	36	28.800	60.400	30.800
200ckt	82.400	51	40.800	84.400	42.800

REMOVE MATERIAL NO. EC NO: SH2008-0651 DRWN:LIU10 CHKD:YLZHU APPR:HWANG	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
			4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm	INCH	DRAWN BY TOM	DATE 2005/10/15	TITLE 0.8MM EDGE CARD CONNECTOR SMT TYPE				
				± ---	± ---	CHECKED BY ALLEN	DATE 2005/10/15					
				± 0.25	± ---	APPROVED BY WILSON	DATE 2005/10/15					
				± 0.25	± ---	MOLEX MOLEX INCORPORATED						
				ANGULAR ± 3 °		MATERIAL NO.			DOCUMENT NO.	SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE TABLE		SD-48191-001		3 OF 3	
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

SEE TABLE
 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION