

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0481911000](#)  
**Status:** **Active**  
**Overview:**  
**Description:** 0.80mm (.031") Pitch Edge Card Connector, Vertical, SMT, 60 Circuits, 0.38µm (15µ") Gold (Au) Plating, 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)	60
Circuits (maximum)	60
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**

**Halogen-Free**

**China RoHS**



**Need more information on product  
environmental compliance?**

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

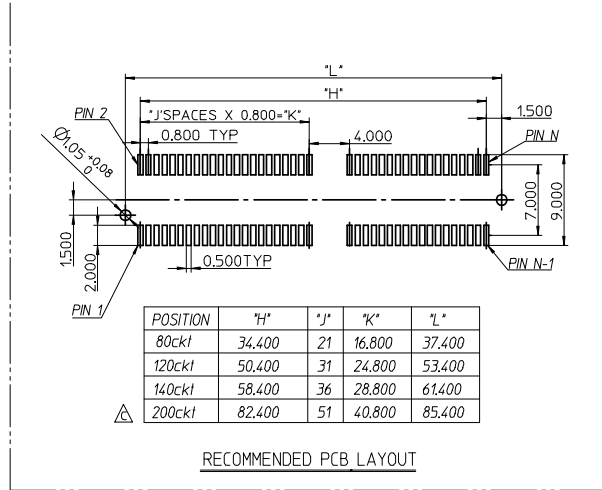
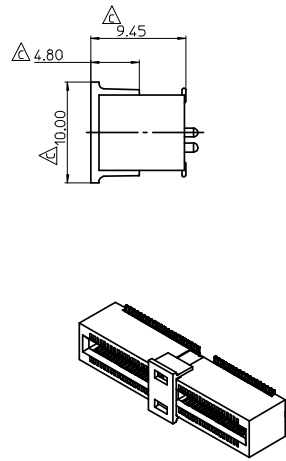
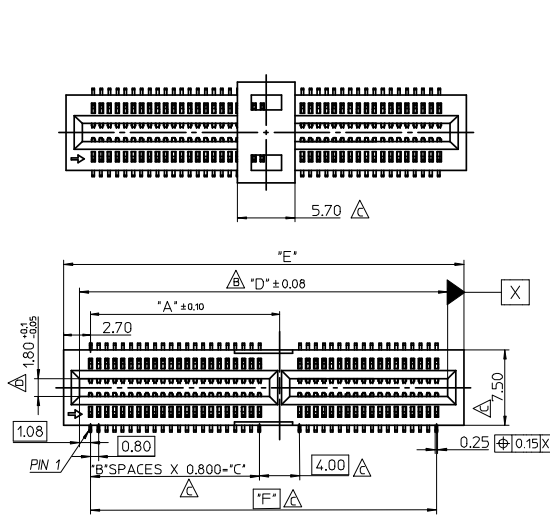
Please visit the [Contact Us](#) section for any  
non-product compliance questions.

**Search Parts in this Series**

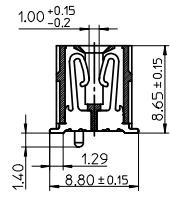
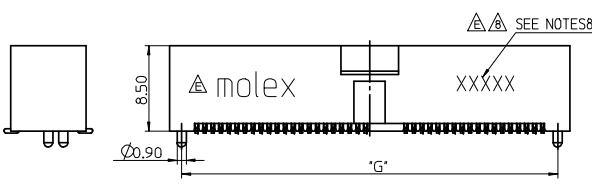
48191Series

**Mates With**

1.60mm (.063") Thick Edge Card Module



RECOMMENDED PCB LAYOUT

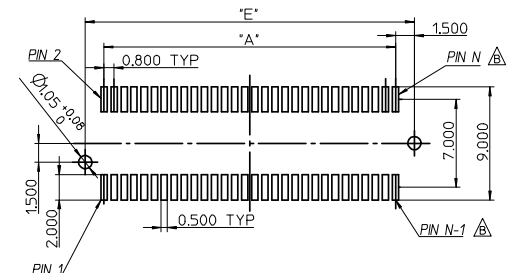
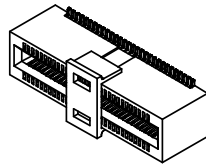
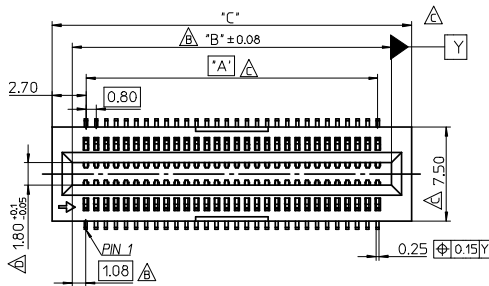
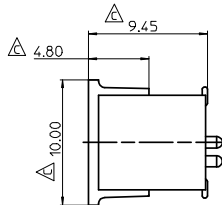
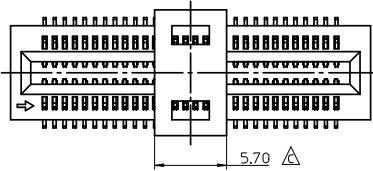


- NOTES:
- MATERIAL:  
HOUSING: LIQUID CRYSTAL POLYMER 30% GLASS FIBER UL 94V-0 RATED  
COLOR: BLACK  
CONTACT: PHOSPHOR BRONZE.
  - PLATING:  
TERMINAL :  
CONTACT AREA: SEE TABLE  
SOLDER TAIL AREA : 100 MICRONCH MIN. TIN OVER 50 MICRONCH MIN. NICKEL.OVERALL
  - PRODUCT SPECIFICATION: PS-48191-001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

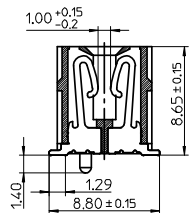
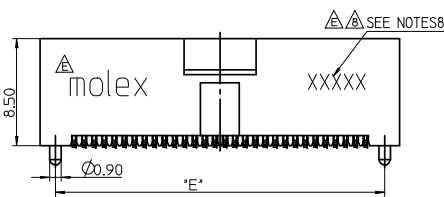
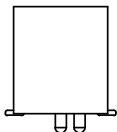
48191-6000	200	GOLD 15 MICRONCH
48191-4000	140	GOLD 15 MICRONCH
48191-3000	120	GOLD 15 MICRONCH
48191-2000	80	GOLD 15 MICRONCH
MOLEX P/N	CKT	CONTACT PLATING

REMOVE MATERIAL NO. EC NO: SH2008-0651 DRWN:LIU10 CHKD:YLZHU APPR:HWANG	2008/06/25 2008/08/07	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◁=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
				mm	INCH	MM ONLY	1:1	METRIC	THIRD ANGLE
DRAWN BY: TOM				DATE: 2005/10/15		TITLE: 0.8MM EDGE CARD CONNECTOR SMT TYPE			
CHECKED BY: ALLEN				DATE: 2005/10/15		MOLEX INCORPORATED			
APPROVED BY: WILSON				DATE: 2005/10/15		DOCUMENT NO: SD-48191-001			
MATERIAL NO.				SEE TABLE		SHEET NO: 1 OF 3			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

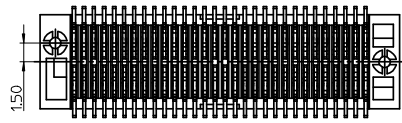


POSITION	"A"	"E"
40ckt	15.200	18.200
60ckt	23.200	26.200
70ckt	27.200	30.200

RECOMMENDED PCB LAYOUT



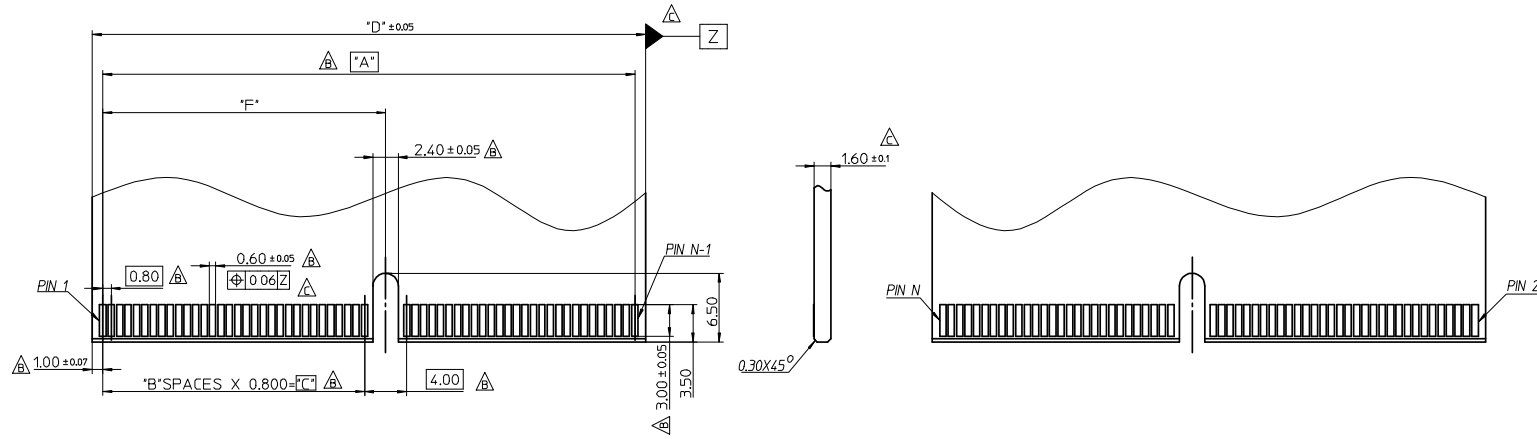
No OF POS	"A"	"B"	"C"	"E"
40ckt	15.20	17.35	20.60	18.20
60ckt	23.20	25.35	28.60	26.20
70ckt	27.20	29.35	32.60	30.20



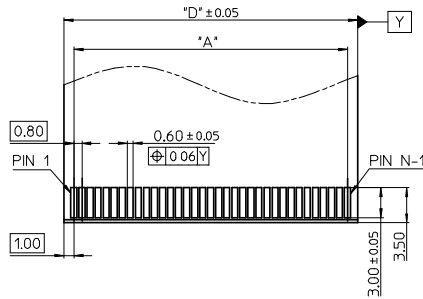
48191-5000	70	GOLD 15 MICRINCH
48191-1000	60	GOLD 15 MICRINCH
48191-7000	40	GOLD 15 MICRINCH
MOLEX P/N	CKT	CONTACT PLATING

REMOVE MATERIAL NO. EC NO: SH2008-0651 TDRW: LLIU10 2008/06/20 CHKD: YLZHU 2008/06/25 APPR: HWANG 2008/08/07	QUALITY SYMBOLS ▽ = 0 ◻ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES	± ---	± ---	DRAWN BY	DATE	TITLE			
		3 PLACES	± ---	± ---	CHECKED BY	DATE	0.8MM EDGE CARD CONNECTOR SMT TYPE			
		2 PLACES	± 0.25	± ---	APPROVED BY	DATE	MOLEX INCORPORATED			
		1 PLACE	± 0.25	± ---	WILSON	2005/10/15	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
		ANGULAR ± 3 °		SEE TABLE		SD-48191-001		2 OF 3		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		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 2008/06/20 CHKD: YLZHU 2008/06/25 APPR: HWANG 2008/08/07	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 ± 0.25 ± ---	1 PLACE ± 0.25 ± ---	DRAWN BY TOM	DATE 2005/10/15	TITLE 0.8MM EDGE CARD CONNECTOR SMT TYPE			
		ANGULAR ± 3 °				CHECKED BY ALLEN	DATE 2005/10/15	APPROVED BY WILSON			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO. SEE TABLE	DATE 2005/10/15	MOLEX INCORPORATED		DOCUMENT NO. SD-48191-001	SHEET NO. 3 OF 3