

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

Not Reviewed

China RoHS



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.

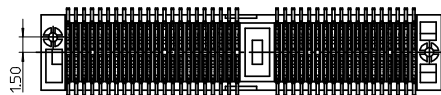
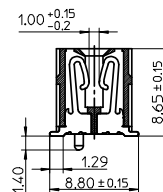
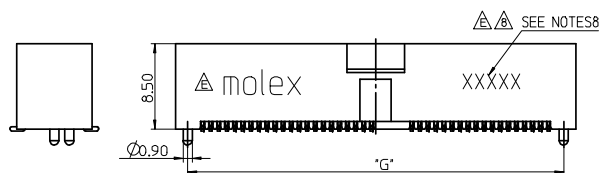
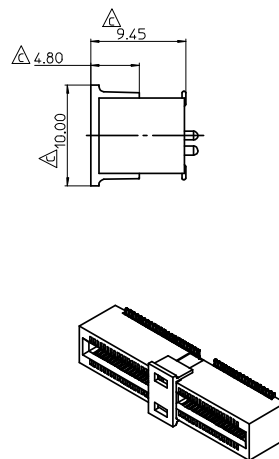
Search Parts in this Series

48191Series

Mates With

1.60mm (.063") Thick Edge Card Module

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△

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



REMOVE MATERIAL NO.	
EC NO: SH2008-0651	
DRWN:LLIU10	
CHKD:YLZHU	2008/06/25
APPR:HWANG	2008/08/07
REV	DESCRIPTION

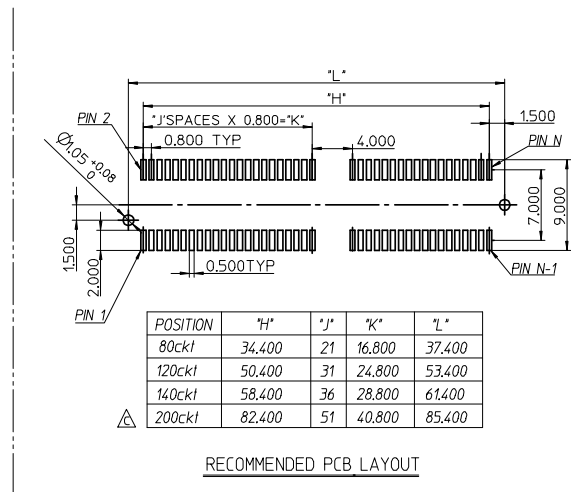
QUALITY SYMBOLS	
	=0
	=0

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		

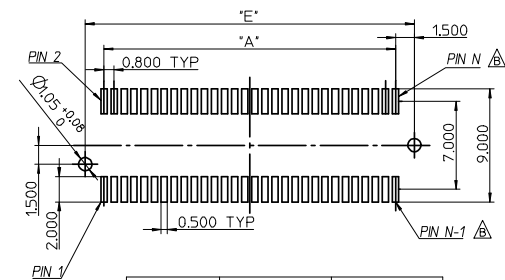
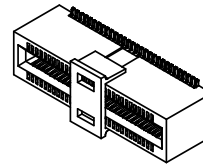
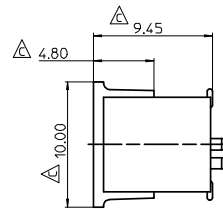
DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
TOM	2005/10/15
CHECKED BY	DATE
ALLEN	2005/10/15
APPROVED BY	DATE
WILSON	2005/10/15
MATERIAL NO.	
SEE TABLE	
SIZE	THIS DRAWING CONTAINS INCORPORATED AND
A3	

	SCALE 1:1
TITLE	
	molex
DOCUMENT I	

DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
0.8MM EDGE CARD CONNECTOR SMT TYPE	
MOLEX INCORPORATED	
NO. SD-48191-001	SHEET NO. 1 OF 3
INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

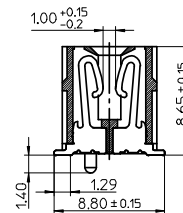
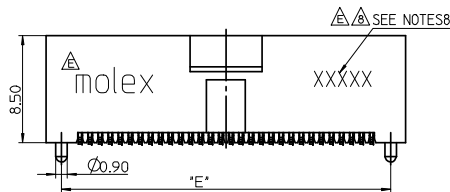
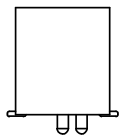


- NOTES:
1. MATERIAL:
HOUSING: LIQUID CRYSTAL POLYMER 30% GLASS FIBER UL 94V-0 RATED
COLOR: BLACK
CONTACT: PHOSPHOR BRONZE.
 2. PLATING:
TERMINAL :
CONTACT AREA: SEE TABLE
SOLDER TAIL AREA : 100 MICROINCH MIN. TIN OVER 50 MICROINCH MIN. NICKEL.OVERALL
 3. PRODUCT SPECIFICATION: PS-48191-001
 4. PACKAGING 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>

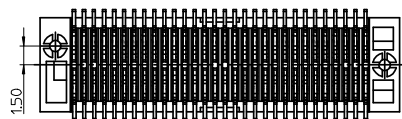


	POSITION	"A"	"E"
A	40cki	15.200	18.200
	60cki	23.200	26.200
B	70cki	27.200	30.200

RECOMMENDED PCB LAYOUT



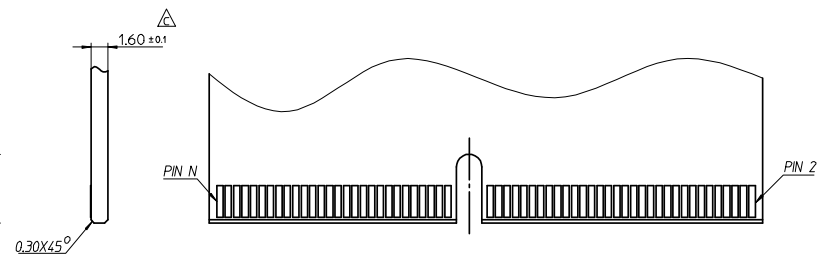
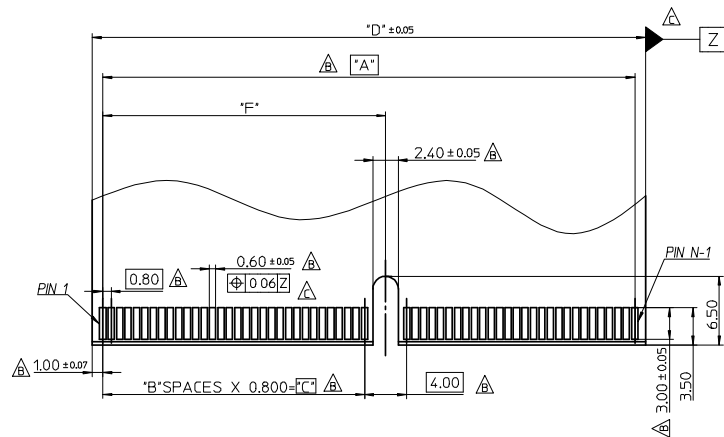
	No OF POS	'A'	'B'	'C'	'E'
A	40cct	15.20	17.35	20.60	18.20
	60cct	23.20	25.35	28.60	26.20
B	70cct	27.20	29.35	32.60	30.20



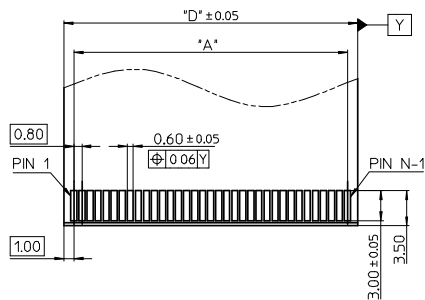
	48191-5000	70	GOLD 15 MICRINCH
	48191-1000	60	GOLD 15 MICRINCH
	48191-7000	40	GOLD 15 MICRINCH
	MOLEX P/N	CKT	CONTACT PLATING

REMOVE MATERIAL NO. EC NO: SH2008-0651 DRAWN: LIU10 CHK'D: YLZHU APPR: HWANG	2008/06/20 2008/06/25 2008/08/07	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
					mm	INCH	DRAWN BY		DATE	TITLE 0.8MM EDGE CARD CONNECTOR SMT TYPE			
				4 PLACES	± ---	± ---	TOM		2005/10/15				
				3 PLACES	± ---	± ---	CHECKED BY		DATE	MOLEX INCORPORATED MOLEX INCORPORATED			
				2 PLACES	± 0.25	± ---	ALLEN		2005/10/15				
1 PLACE	± 0.25	± ---	APPROVED BY		DATE	MOLEX MOLEX INCORPORATED							
ANGULAR ± 3 °		WILSON		2005/10/15	MATERIAL NO. SEE TABLE					DOCUMENT NO. SD-48191-001		SHEET NO. 2 OF 3	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		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		SIZE A3		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

SD-48191-001

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