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Part Number: [0481917000](#)
Status: **Active**
Overview:
Description: 0.80mm (.031") Pitch Edge Card Connector, Vertical, SMT, 40 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)	40
Circuits (maximum)	40
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 (RMS)

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](#)

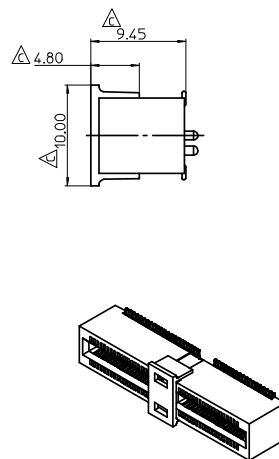
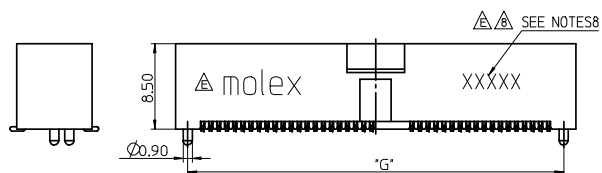
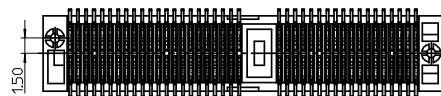
Please visit the [Contact Us](#) section for any
non-product compliance questions.

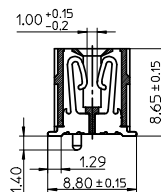
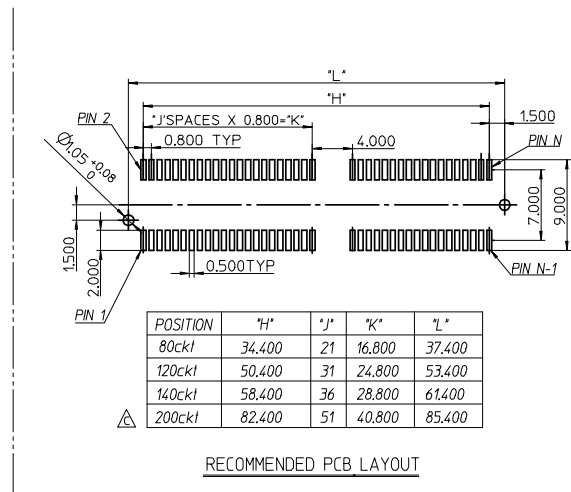
Search Parts in this Series

[48191Series](#)

Mates With

1.60mm (.063") Thick Edge Card Module



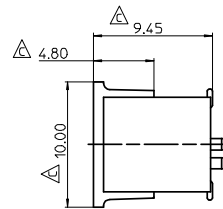
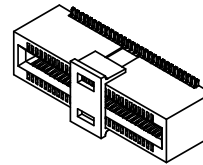
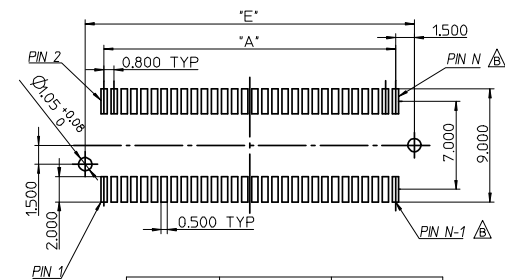


1. MATERIAL:
HOUSING: LIQUID CRYSTAL POLYMER 30% GLASS FIBER UL 94V-0 RATED
COLOR: BLACK
CONTACT: PHOSPHOR BRONZE.
2. PLATING:
TERMINAL :
CONTACT AREA: SEE TABLE
SOLDER TAIL AREA : 100 MICROINCH MIN. TIN OVER 50 MICROINCH MIN. NICKEL.OVERALL
3. PRODUCT SPECIFICATION: PS-48191-001
4. PACKAGING SPECIFICATION: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

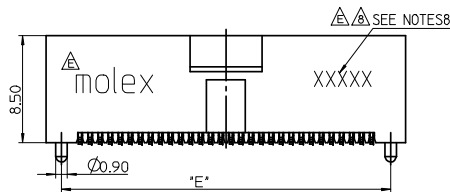
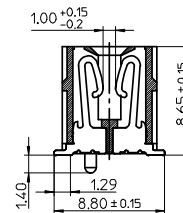
tb_frame_A3_P_AM_T
Rev. E 2006/04/15

REMOVE MATERIAL NO. EC NO: SH2008-0651 DRW/NL1 U10 CHKD:Y.ZHU APPR:HWANG 2008/06/25 2008/08/07	DESCRIPTION	QUALITY SYMBOLS <div>▽=0</div> <div>▽=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY	DATE	0.8MM EDGE CARD CONNECTOR SMT TYPE					
			4 PLACES	±---	±---	TOM	2005/10/15						
			3 PLACES	±---	±---	CHECKED BY	DATE						
			2 PLACES	±0.25	±---	ALLEN	2005/10/15	MOLEX INCORPORATED					
			1 PLACE	±0.25	±---	APPROVED BY	DATE						
			ANGULAR ± 3 °			WILSON	2005/10/15	MOLEX					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.				SHEET NO.	
						SEE TABLE		SD-48191-001				1 OF 3	
						SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

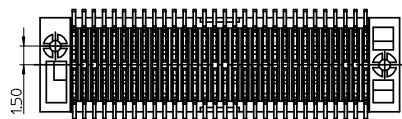


	POSITION	"A"	"E"
A	40cki	15.200	18.200
	60cki	23.200	26.200
B	70cki	27.200	30.200

RECOMMENDED PCB LAYOUT



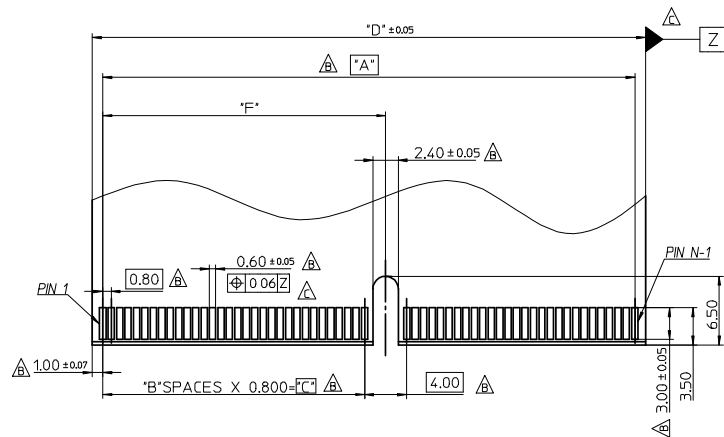
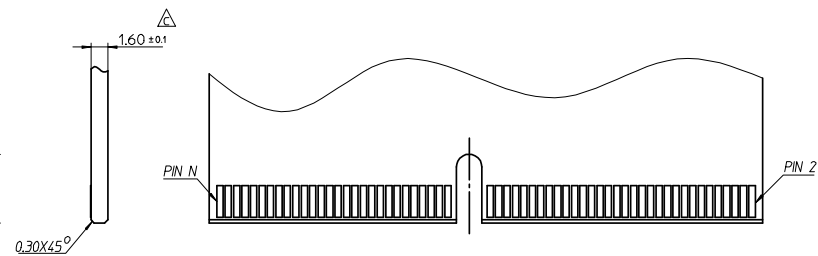
	No OF POS	'A'	'B'	'C'	'E'
A	40cct	15.20	17.35	20.60	18.20
	60cct	23.20	25.35	28.60	26.20
B	70cct	27.20	29.35	32.60	30.20



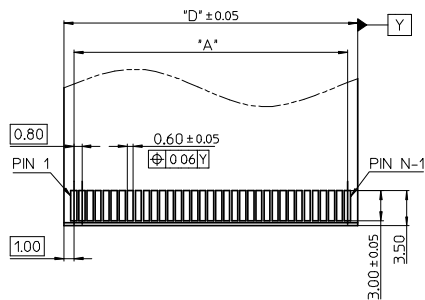
	48191-5000	70	GOLD 15 MICRINCH
	48191-1000	60	GOLD 15 MICRINCH
	48191-7000	40	GOLD 15 MICRINCH
	MOLEX P/N	CKT	CONTACT PLATING

REMOVE MATERIAL NO. EC NO: SH2008-0651 DRAWN: L1U10 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 °				MATERIAL NO.		DOCUMENT NO.		SHEET NO.					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SIZE A3		SEE TABLE THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
						SD-48191-001		2 OF 3					

△ 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 <div>▽=0</div> <div>▽=0</div>	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 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

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