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Part Number: [0738290001](#)
Status: **Active**
Description: 1.27mm (.050") Pitch EBBI™ 50D Receptacle, Vertical, Press-fit, Extended Height, SCA-2, 80 Circuits

Documents:
[3D Model](#) [Product Specification PS-73826-0000 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

General

Product Family PCB Receptacles
Series [73829](#)
Application Board-to-Board
Product Name EBBI™

Physical

Circuits (Loaded) 80
Color - Resin Black
Durability (mating cycles max) 500
Flammability 94V-0
Glow-Wire Compliant No
Guide to Mating Part Yes
Material - Metal High Performance Alloy (HPA), Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin-Lead
Material - Resin High Temperature Thermoplastic
Number of Rows 2
Orientation Vertical
PC Tail Length (in) 0.125 In
PC Tail Length (mm) 3.18 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.093 In
PCB Thickness Recommended (mm) 2.40 mm
Packaging Type Tray
Pitch - Mating Interface (in) 0.050 In
Pitch - Mating Interface (mm) 1.27 mm
Plating min: Mating (µin) 30
Plating min: Mating (µm) 0.75
Plating min: Termination (µin) 75
Plating min: Termination (µm) 1.875
Polarized to PCB Yes
Temperature Range - Operating -40°C to +105°C
Termination Interface: Style Through Hole - Compliant Pin

Electrical

Current - Maximum per Contact 1A
Voltage - Maximum 30V

Solder Process Data

Replacement RoHS Compliant Part Number 0738295001

Material Info

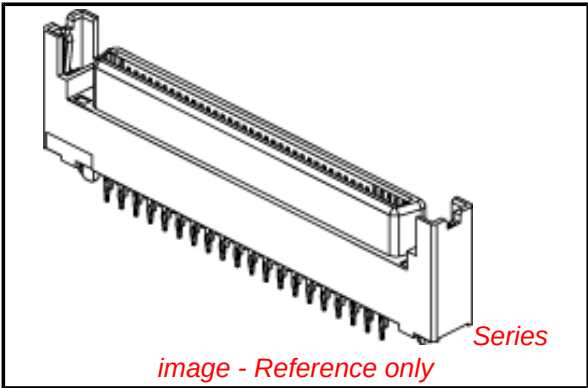


image - Reference only

EU RoHS
RoHS Compliant by Exemption
REACH SVHC
Contains SVHC: No
Halogen-Free
Status
Halogen-Free

China RoHS

Pb

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
[73829Series](#)

Mates With
[71661](#) , [87572](#) , [87571](#) , [87012](#)

Reference - Drawing Numbers

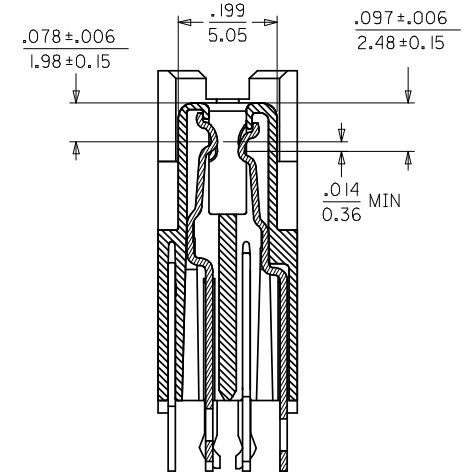
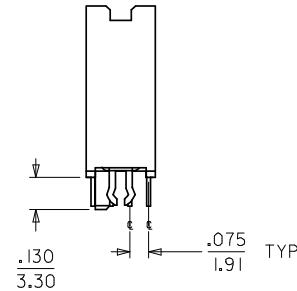
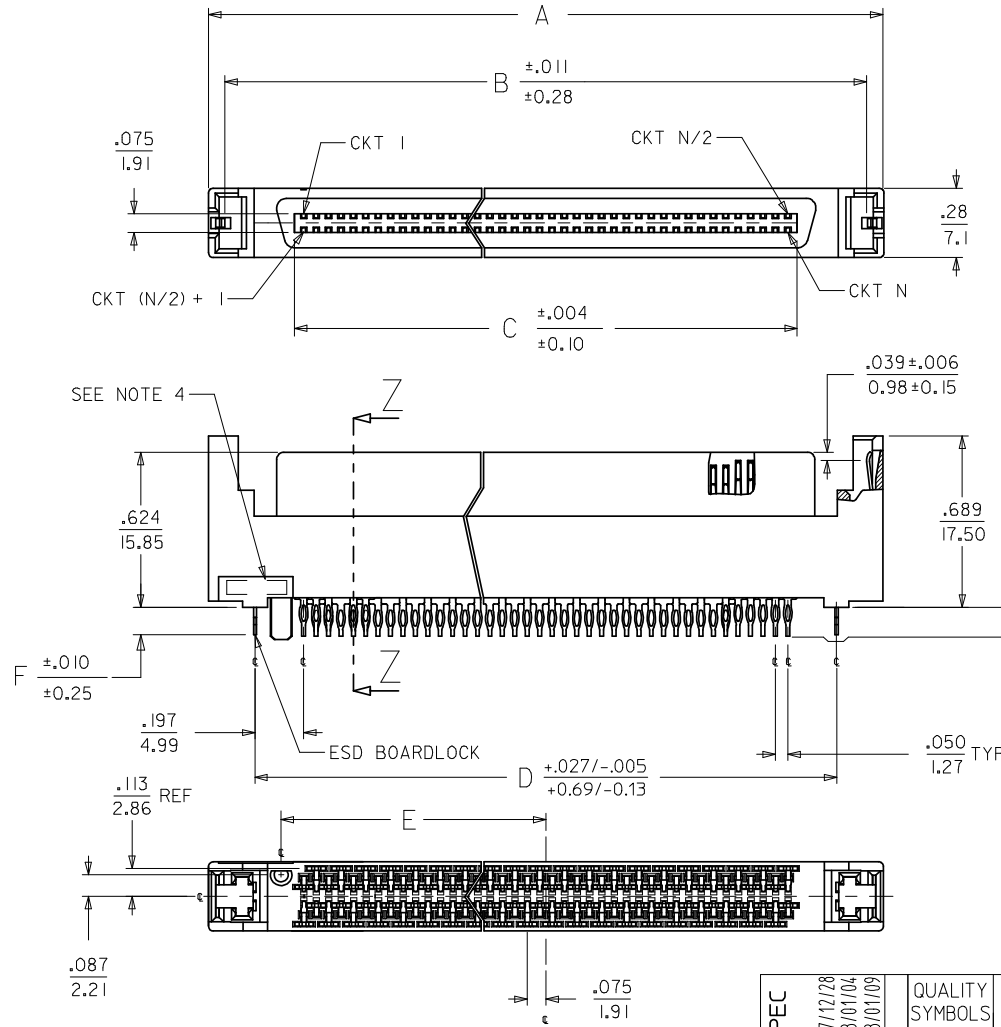
Product Specification
Sales Drawing

PS-73826-0000
SD-73829-001

This document was generated on 04/08/2010

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- NOTES:**
- 1. MATERIAL:**
HOUSING: I.R. COMPATIBLE POLYMER, GLASS FILLED, UL 94 V 0, BLACK
TERMINALS: COPPER ALLOY
BOARDLOCK: COPPER ALLOY
 - 2. FINISH:**
TERMINALS: SELECTIVE GOLD IN CONTACT AREA
THICKNESS = 30 MICROINCHES / 0.763 MICROMETERS
SELECTIVE TIN/LEAD IN TAIL AREA
THICKNESS = 100 MICROINCHES/ 2.54 MICROMETERS
NICKEL UNDERPLATE OVERALL.
ESD BOARDLOCK: TIN OVERALL.
 - 3. PRODUCT SPECIFICATION:** PS-73826-0000
 - 4. FOUR DIGIT DATE CODE IN THIS LOCATION (WK YR).**
 - 5. CONTACT GAP WILL ACCOMMODATE A MATING CONNECTOR OF:**
.063+/- .003 (1.60+/- 0.08)
 - 6. PRODUCT CONFORMS TO COSMETIC SPEC PS-45499-002, CLASS C.**



SECTION Z-Z
SCALE - 4:1

ADD COSMETIC SPEC
EC NO: UCP2008-1086
DRWN:BBARKER 2007/12/28
CHKD:SDANIELLEY 2008/01/04
APPR:SMILLER 2008/01/09

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .005
2 PLACES	± 0.13	± .01
1 PLACE	± 0.25	± ---
ANGULAR	± °	

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM

DRAWN BY	DATE
ACHAMMER	98/05/07
CHECKED BY	DATE
ACHAMMER	98/05/07
APPROVED BY	DATE
BANAKIS	98/05/07

MATERIAL NO.

SCALE
DESIGN UNITS
THIRD ANGLE PROJECTION

SALES ASSEMBLY
EXTENDED HEIGHT SCA-2
PRESS-FIT RECEPTACLE

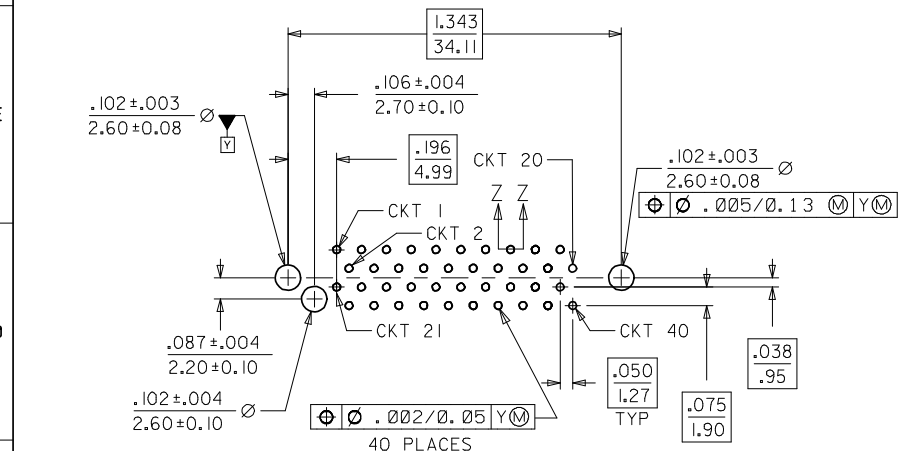
MOLEX INCORPORATED

DOCUMENT NO. SD-73829-001

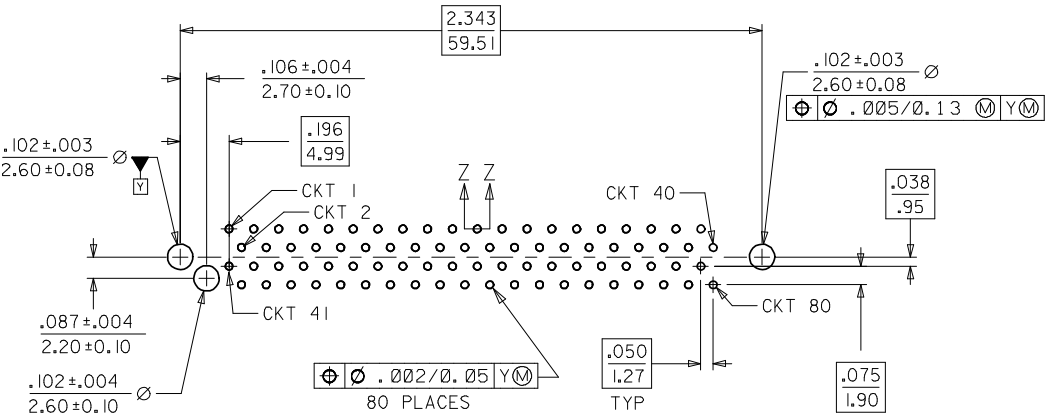
SHEET NO. 1 OF 2

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

	10	9	8	7	6	5	4	3	2	73829
	MATERIAL NUMBER	CIRCUIT SIZE	DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D	DIMENSION E	DIMENSION F	DIMENSION P	ADVANCED TERMINALS / CIRCUITS (SECTION Z-Z, SHEET 1)
F	738290001	80	2.717/(69.01)	2.583/(65.61)	2.025/(51.44)	2.343/(59.51)	1.066/(27.06)	.109/(2.77)	.125/(3.18)	1, 36, 37, 38, 39, 40, 41, 42, 43, 45, 46, 75, 76, 77, 78, 79, 80
	738290002	40	1.717/(43.61)	1.583/(40.21)	1.025/(26.04)	1.343/(34.11)	.566/(14.38)	.109/(2.77)	.125/(3.18)	21, 22, 23, 26, 29, 32, 35, 36, 37, 38, 39, 40

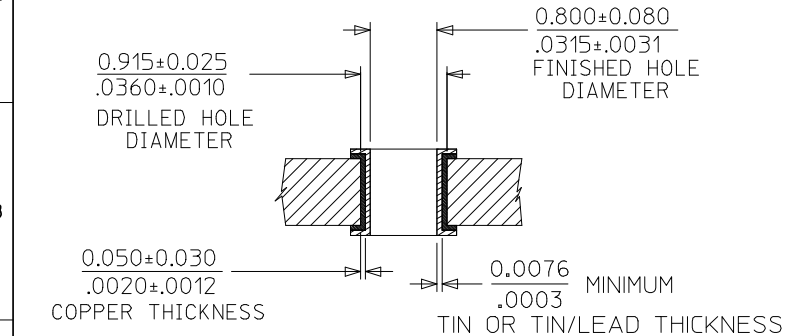


PCB LAYOUT FOR 40 CIRCUIT
COMPONENT SIDE



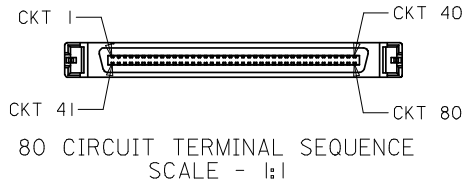
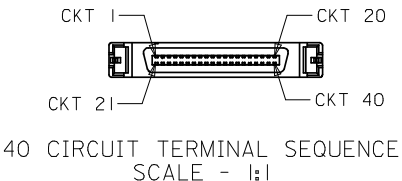
PCB LAYOUT FOR 80 CIRCUIT
COMPONENT SIDE

RECOMMENDED BOARD THICKNESS = .093



NOTE: SECTION Z-Z - RECOMMENDED PCB HOLE CONFIGURATION

THE DRILLED HOLE SIZE IS BASED ON THE RECOMMENDED PLATINGS AND THICKNESSES. IF OTHER PLATING TYPES AND/OR THICKNESSES ARE USED, A DRILL SIZE THAT WILL RESULT IN THE FINISHED HOLE SIZE INDICATED WILL NEED TO BE USED.



ADD COSMETIC SPEC EC NO: UCP2008-1086 2007/02/28 DRW:NBARKER 2008/01/04 CHKD:SDANNELEY 2008/01/09 APPR:SMILLER	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY	DATE	TITLE SALES ASSEMBLY EXTENDED HEIGHT SCA-2 PRESS-FIT RECEPTACLE				
			4 PLACES ± ---	± ---	ACHAMMER	98/05/07					
			3 PLACES ± ---	± .005	CHECKED BY	DATE	MOLEX INCORPORATED				
			2 PLACES ± 0.13	± .01	ACHAMMER	98/05/07					
1 PLACE ± 0.25	± ---	APPROVED BY	DATE	MOLEX INCORPORATED							
ANGULAR ± °		BANAKIS	98/05/07								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO.	DOCUMENT NO.					SHEET NO.	
				SEE TABLE		SD-73829-001					2 OF 2
				SIZE B	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						