

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0717434040](#)
Status: **Active**
Description: 1.27mm (.050") Pitch EBBI™ 50D Receptacle, Vertical SCA-2, 40 Circuits, SMT, 2.49mm (.098") Retention Clip

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 [71743](#)
 Application Board-to-Board
 Comments Circuits 21-23, 26, 29, 32, 35-40 are advanced terminals for sequential first-mate/last-break mating
 Product Name EBBI™, SCA-2

Physical

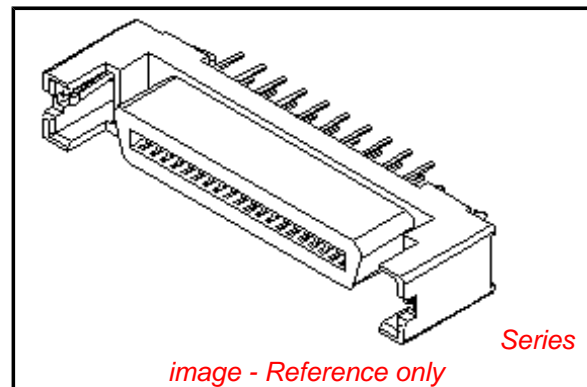
Circuits (Loaded) 40
 Color - Resin Black
 Durability (mating cycles max) 500
 Flammability 94V-0
 Glow-Wire Compliant No
 Guide to Mating Part Yes
 Lock to Mating Part None
 Material - Metal Phosphor Bronze
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin High Temperature Thermoplastic
 Number of Rows 2
 Orientation Vertical
 PCB Locator Yes
 PCB Retention Yes
 PCB Thickness Recommended (in) 0.062 In
 PCB Thickness Recommended (mm) 1.60 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) 0.76
 Plating min: Termination (µin) 75
 Plating min: Termination (µm) 1.91
 Polarized to PCB Yes
 Surface Mount Compatible (SMC) N/A
 Temperature Range - Operating -40°C to +105°C
 Termination Interface: Style Surface Mount

Electrical

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

Solder Process Data

Lead-free Process Capability SMC & Wave Capable (TH only)



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

[71743Series](#)

Mates With

[87572](#) , [87571](#) , [87012](#)

Process Temperature max. C 260

Material Info

Reference - Drawing Numbers

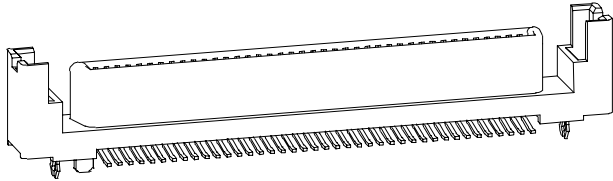
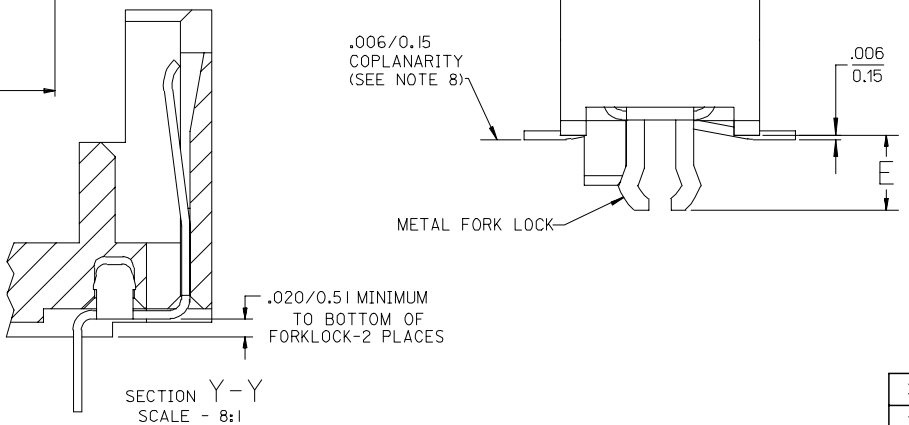
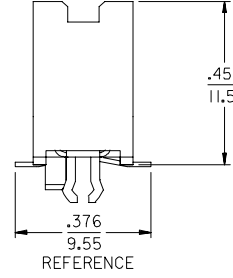
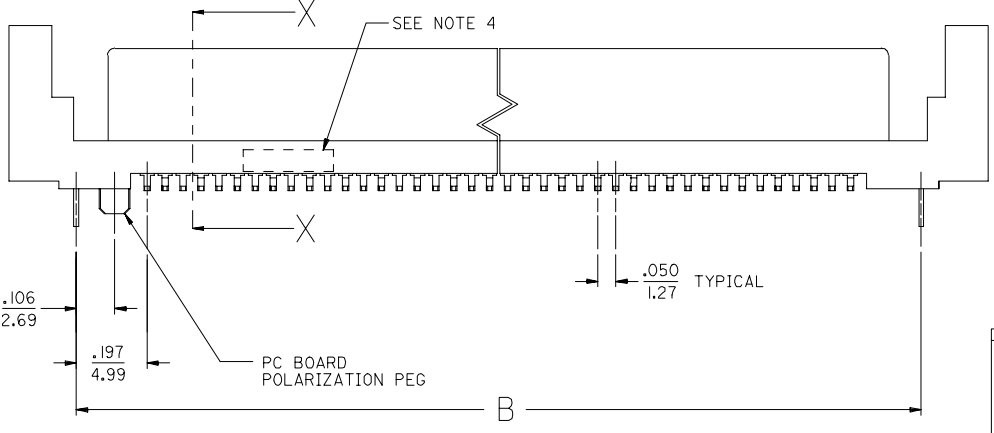
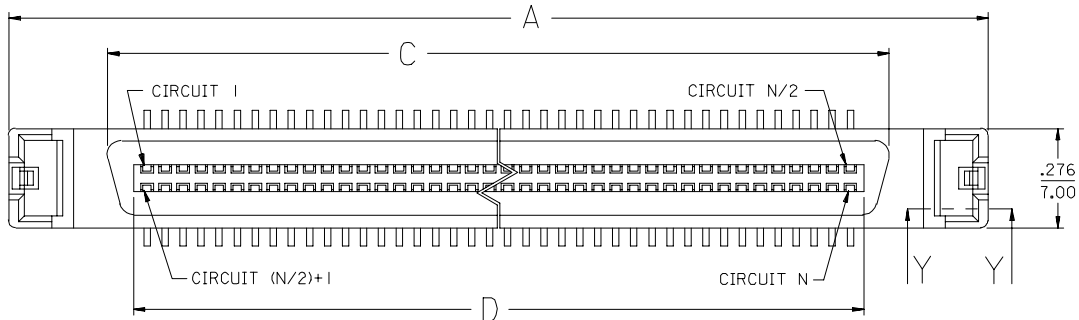
Product Specification PS-73826-0000
Sales Drawing SD-71743-003

This document was generated on 04/14/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

13 12 11 10 9 8 7 6 5 4 3 2 1

- NOTES:
1. MATERIAL:
HOUSING: I.R. COMPATIBLE POLYMER, GLASS FILLED, UL 94 V 0, BLACK
TERMINALS: COPPER ALLOY
BOARDLOCK: COPPER ALLOY
 2. FINISH:
TERMINALS: 30 MICROINCHES / 0.76 MICROMETERS GOLD IN CONTACT AREA
100 MICROINCHES/ 2.54 MICROMETERS TIN IN TAIL AREA
NICKEL UNDERPLATE OVERALL.
ESD BOARDLOCK: TIN OVER NICKEL OVERALL.
*THE PRIMARY SHIPPING CARTON WILL BE LABELED 'COMPLIANT TO
RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC'.
CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH LEAD.
 3. PRODUCT SPECIFICATION: PS-73826-0000
 4. FOUR DIGIT DATE CODE IN THIS LOCATION (WK YR).
 5. CONTACT GAP WILL ACCOMMODATE MATING CONNECTOR OF:
.063+/-0.003 / 1.60+/-0.08
 6. PACKAGE PER SPECIFICATION PK-70873-5025.
 7. CIRCUIT NUMBERS 1,36 THRU 43, 45, 46, AND 75 THRU 80,
ARE ADVANCED (LONG) TERMINALS FOR SEQUENTIAL MATING.
 8. COPLANARITY TO BE MEASURED USING FIXTURE * 71743-9001 OR EQUIVALENT.
MEASUREMENT TO BE TAKEN AT 50X MAGNIFICATION.
COPLANARITY IS THE DISTANCE BETWEEN THE SEATING PLANE AND THE LOWEST
POINT ON THE SMT TAIL THAT IS FARTHEST AWAY FROM THE SEATING PLANE.
FIXTURING TO BE SUCH THAT ALL TAILS ARE OVER THE SEATING PLANE.

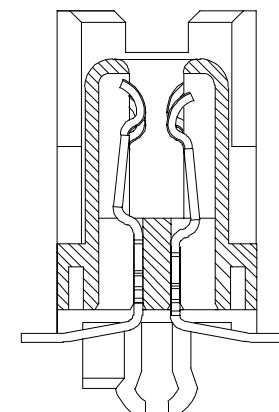
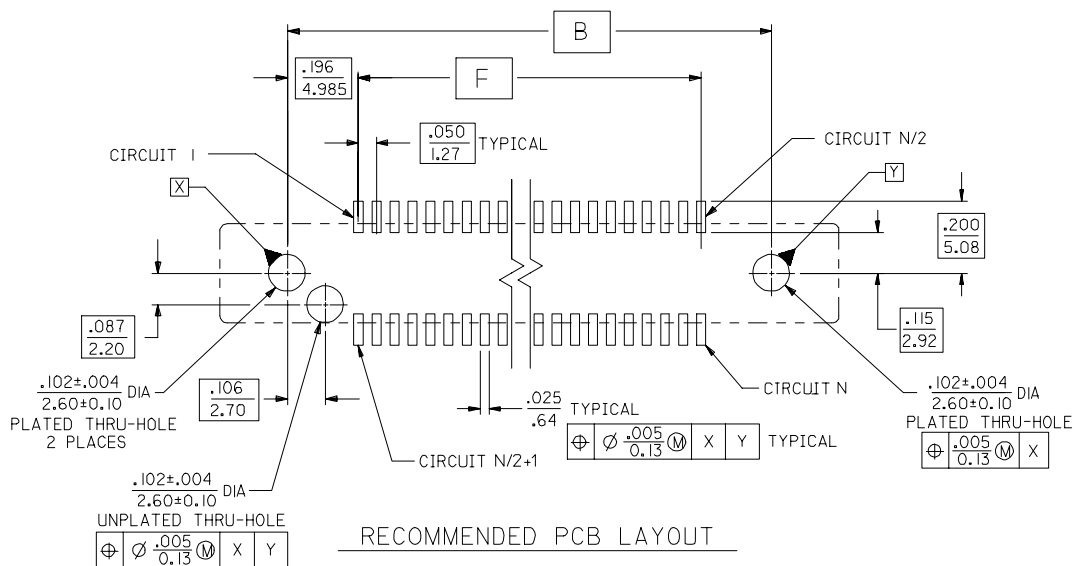


2	E
1	E
SHT	REV

ADD PART NUMBERS EC NO: UCP2006-0819 DRAWN: BBARKER CHKD: SMILLER APPR: SMILLER 2005/10/20 2005/10/21 2005/10/21	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
		4 PLACES ± .010 3 PLACES ± .010 2 PLACES ± 0.25 1 PLACE ± .010	mm INCH	DRAWN BY RLWHITE	DATE 03/05/15	TITLE SALES DRAWING - ASSEMBLY EBBI VERTICAL RECEPTACLE SMT SCA-2 CONNECTOR			
		ANGULAR ±1/2°	MATERIAL NO. SEE CHART	CHECKED BY BBARKER	DATE 03/05/15	MOLEX INCORPORATED			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE C	APPROVED BY SMILLER		DATE 03/05/15	DOCUMENT NO. SD-71743-003	SHEET NO. 1 OF 2	

12 11 10 9 8 7 6 5 4 3 2 1

	13	12	11	10	9	8	7	6	5	4	3	2	1
	MATERIAL NUMBER		DIMENSION E	CIRCUIT SIZE (N)	DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D	DIMENSION F	ADVANCED TERMINALS / CIRCUITS (SECTION Z-Z, SHEET I)			
J	71743-4040		.098/2.49	40	1.717/43.61	1.343/34.11	1.168/29.67	1.025/26.04	.950/24.13	21, 22, 23, 26, 29, 32, 35, 36, 37, 38, 39, 40			
	71743-4240		.118/3.00										
I	71743-4080		.098/2.49	80	2.717/69.01	2.343/59.51	2.168/55.07	2.025/51.44	1.950/49.53	1, 36, 37, 38, 39, 40, 41, 42, 43, 45, 46, 75, 76, 77, 78, 79, 80			
	71743-4280		.118/3.00										



SECTION X-X
SCALE - 8:1

ADD PARTS EC NO: UCP2006-0819 2005/10/20 DRAWN: BBARKER 2005/10/21 CHKD: HSWART 2005/10/21 APPR: SMILLER 2005/10/21 REVISION DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
	4 PLACES ±.010 3 PLACES ±.010 2 PLACES ±0.25 1 PLACE ±.010	mm INCH	DRAWN BY RWHITE	DATE 03/05/15	TITLE SALES DRAWING - ASSEMBLY EBBI VERTICAL RECEPTACLE SMT SCA-2 CONNECTOR			
	ANGULAR ±1/2°	CHECKED BY BBARKER	DATE 03/05/15	APPROVED BY SMILLER	DATE 03/05/15	MATERIAL NO. MOLEX INCORPORATED	DOCUMENT NO. SD-71743-003	SHEET NO. 2 OF 2
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE CHART						