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Part Number: [0717431045](#)
Status: **Active**
Description: 1.27mm (.050") Pitch EBBI™ 50D Receptacle, Vertical SCA-2, 40 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 [71743](#)
 Application Board-to-Board
 Product Name EBBI™

Physical

Circuits (Loaded) 40
 Color - Resin Black
 Durability (mating cycles max) 500
 Flammability 94V-0
 Glow-Wire Compliant No
 Guide to Mating Part Yes
 Material - Metal Phosphor Bronze
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin High Temperature Thermoplastic
 Number of Rows 2
 Orientation Vertical
 PC Tail Length (in) 0.148 In
 PC Tail Length (mm) 3.75 mm
 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) 0.75
 Plating min: Termination (µin) 10
 Plating min: Termination (µm) 0.25
 Polarized to PCB Yes
 Temperature Range - Operating -40°C to +105°C
 Termination Interface: Style Through Hole

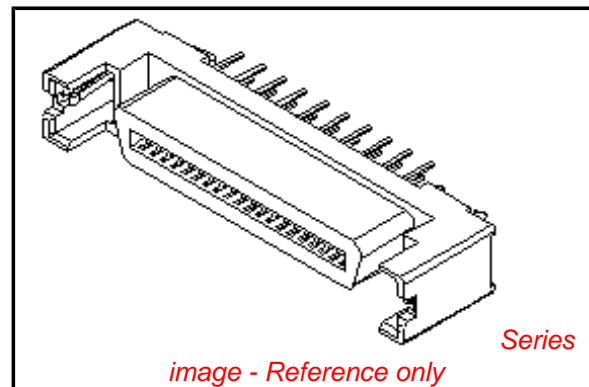
Electrical

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

Solder Process Data

Lead-free Process Capability SMC & Wave Capable (TH only)
 Process Temperature max. C 260

Material Info



EU RoHS

**ELV and RoHS
 Compliant**
**REACH SVHC
 Contains SVHC: No**
**Halogen-Free
 Status**

China RoHS



Not Reviewed

**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](#)

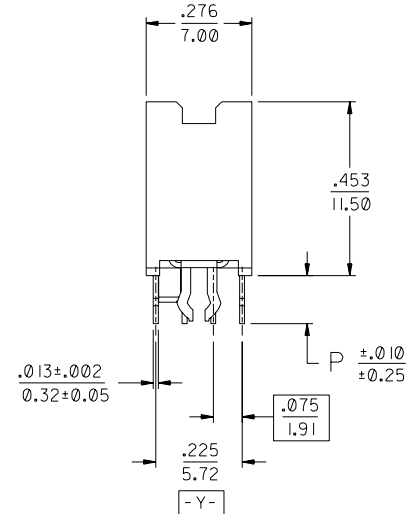
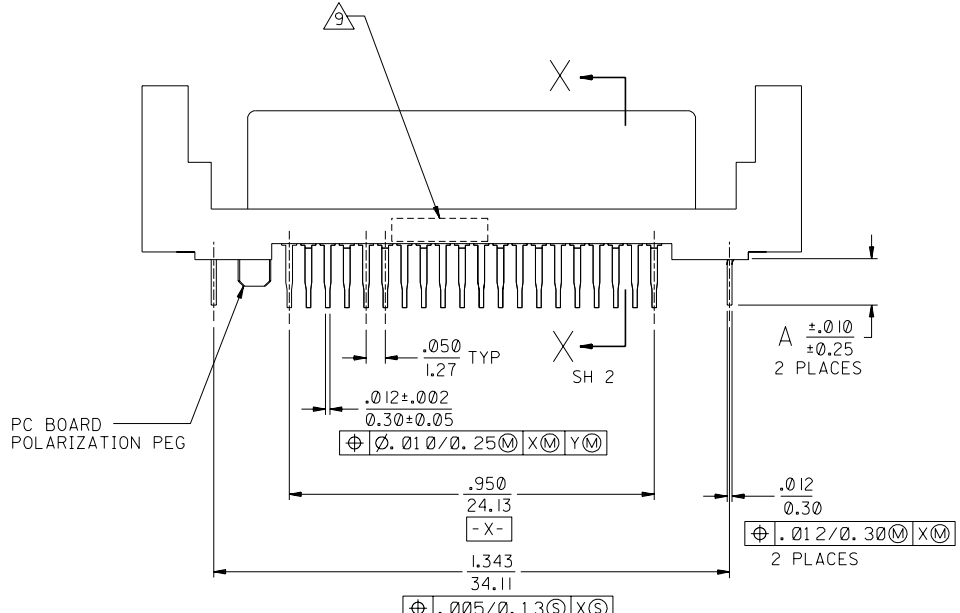
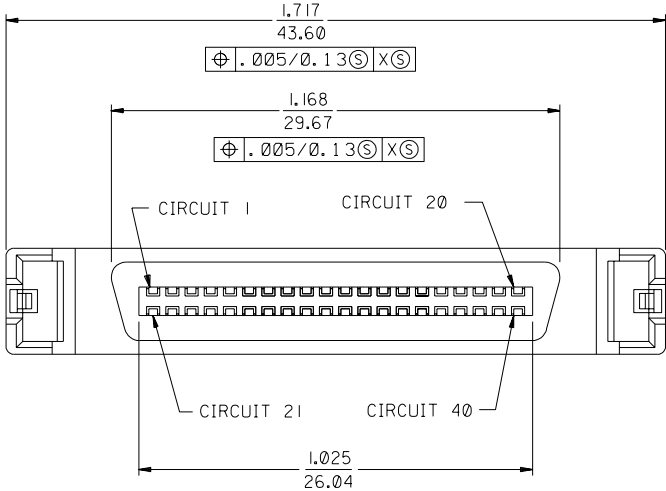
Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-73826-0000
SDA-71743-104*

This document was generated on 04/14/2010

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- NOTES:**
- 1) **MATERIALS:**
HOUSING- LIQUID CRYSTAL POLYMER (LCP), GLASS FILLED, UL 94V-0, BLACK.
TERMINALS- COPPER ALLOY
ESD METAL PEGS- COPPER ALLOY.
 - 2) **PLATING OPTION 1:**
TERMINALS:
.000030/(0.00076) MINIMUM GOLD IN CONTACT AREA AND .000100/(0.00254) MINIMUM TIN IN TAIL AREA OVER NICKEL UNDERPLATING OVERALL.
ESD METAL PEGS:
.000150/(0.00381) MINIMUM TIN OVER NICKEL UNDERPLATING OVERALL.
 - 3) **PLATING OPTION 2:**
TERMINALS: GOLD FLASH IN SELECT CONTACT AREA OVER .000030/(0.00076) MINIMUM PALLADIUM NICKEL IN CONTACT AREA AND .000075/(0.00191) MINIMUM TIN IN TAIL AREA OVER NICKEL UNDERPLATING OVERALL.
ESD METAL PEGS:
.000150/(0.00381) MINIMUM TIN OVER NICKEL UNDERPLATING OVERALL.
 - 4) CONFORMS TO PRODUCT SPECIFICATION PS-73826-0000.
 - 5) CIRCUIT NUMBERS 21 THRU 23, 26, 29, 32, 35 THRU 40, ARE ADVANCED (LONG) TERMINALS FOR SEQUENTIAL MATING.
 - 6) CONNECTOR WILL ACCEPT MATING TO A P.C. BOARD WITH A THICKNESS OF $.062 \pm .003$ (1.60 ± 0.08).
 - 7) SEE TABLE FOR RECOMMENDED P.C. BOARD THICKNESS.
 - 8) PRODUCT PACKAGED PER PK-70873-083*
 - 9) FOUR DIGIT DATE CODE (WK, YR), EXAMPLE => 26 96 LOCATED IN AREA INDICATED.

J	REVISD ECN UCP2004-2082 RKADAMS 04/04/22
I	REVISD ECN UCP2003-0093 BBARKER 02/08/13
H	REVISD ECN UDT 2000-1231 ACHAMMER 00/06/07
G	REVISD ECN UDT1999-0975 KSMITH 99/05/26
F2	REVISD ECN UDT 1999-0865 ACHAMMER 99-04-10
F1	REVISD ECN UDT1998-0294 STANISLA 98/6/10
F	REVISD PER ECN U80654 ACHAMMER 97-9-18
E	REVISD PER ECN U71495 ACHAMMER 97-6-2
D1	REVISD PER ECN U70444 ACHAMMER 96-11-26
D	REVISD PER ECN U61278 5-2-96 DCA
C	REVISD PER ECN U600641 11-29-95 DRS
B	REVISD PER ECN U60297 9-1-95 RAN
A	INITIAL RELEASE PER ECN U60019 8-15-95 RAN

71743-1045	SEE NOTE Δ	.130 \pm .006 (3.30 \pm 0.15)	.148 (3.75)	.118 (3.00)
71743-1044	SEE NOTE Δ	.125 \pm .003 (3.18 \pm 0.08)	.134 (3.40)	.118 (3.00)
71743-1043	SEE NOTE Δ	.093 \pm .003 (2.36 \pm 0.08)	.125 (3.18)	.118 (3.00)
71743-1042	OBSOLETE			
71743-1041	SEE NOTE Δ	.062 \pm .003 (1.60 \pm 0.08)	.110 (2.79)	.118 (3.00)
71743-1040	SEE NOTE Δ	.093 \pm .003 (2.36 \pm 0.08)	.125 (3.18)	.118 (3.00)
PART NUMBER	PLATING	PCB THICKNESS	DIM. P	DIM. A

NOTE FOR LEAD FREE CONVERSION:
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.

DIMENSIONS SHOWN (METRIC) INCH UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR $\pm 1/2^\circ$		REVISE ONLY ON CAD SYSTEM	
3 PLACE $\pm .005$		TITLE SALES ASSEMBLY	
2 PLACE $\pm .01$ ± 0.13		EBBI VERTICAL RECEPTACLE	
1 PLACE --- ± 0.25		40 CKT FIBRE CHANNEL CONN	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MOLEX INCORPORATED SHEET NO. DATE	
DRWG. BY RAN CHK'D. BY RAN		U.S.A. 1 OF 2 7/21/95	
APPR'D. BY GWF SCALE 4: 1		PART NO. SDA-71743-104*	
FILE NAME 571743X4		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

