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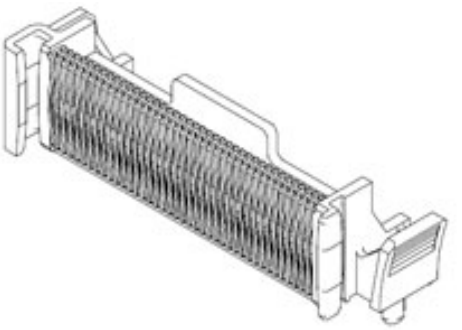
This document was generated on 06/07/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0442450050
Status: Active
Description: 1.27mm (.050") Pitch SliderZ™ Board-to-Board Connector, Hermaphroditic

Documents:

3D Model
Drawing (PDF)
Packaging Specification (PDF)
Product Specification PS-44245-999 (PDF)
RoHS Certificate of Compliance (PDF)



Series image - Reference only

General

Product Family	PCB Headers
Series	44245
Application	Board-to-Board
Product Name	SliderZ™

Physical

Breakaway	No
Circuits (Loaded)	50
Circuits (maximum)	50
Durability (mating cycles max)	1,000
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	No
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.120 In
PC Tail Length (mm)	3.05 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.056 In
PCB Thickness Recommended (mm)	1.42 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.050 In
Pitch - Mating Interface (mm)	1.27 mm
Pitch - Term. Interface (in)	0.050 In
Pitch - Term. Interface (mm)	1.27 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.75
Plating min: Termination (µin)	120
Plating min: Termination (µm)	3
Polarized to Mating Part	Yes
Polarized to PCB	No
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	1.25A
Voltage - Maximum	30V AC (RMS)

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
44245Series

Material Info

Reference - Drawing Numbers

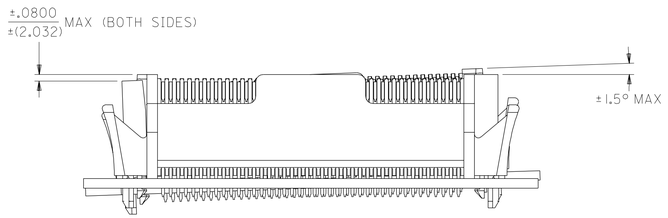
Packaging Specification	PK-44245-001, PK-44783-001
Product Specification	PS-44245-999
Sales Drawing	SD-44245-002, SD-44783-001
Test Summary	TS-44245-999

This document was generated on 06/07/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

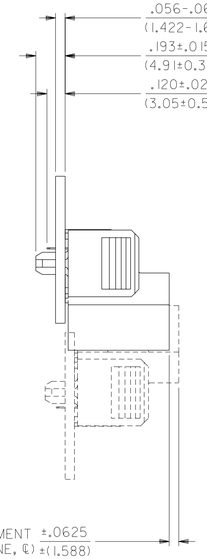
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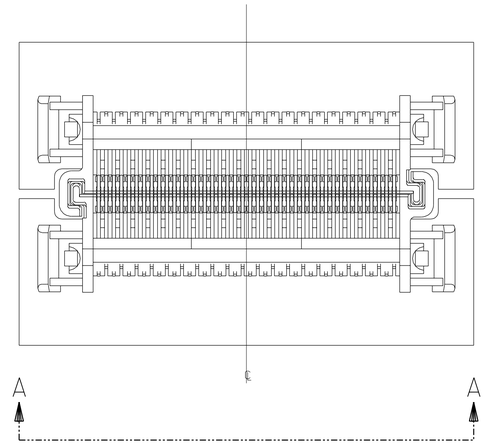
1. MATERIAL:
   HOUSING: GLASS FILLED POLYESTER, UL94V-0; COLOR = BLACK
   CONTACTS: COPPER ALLOY
2. FINISH: .000030/(0.00076) MIN. GOLD ON CONTACTS, .000080/(0.00203) MIN. TIN ON SOLDER TAILS, OVER .000050/(0.00127) MIN. NICKEL OVERALL.
   * THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC" CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD IN THE PC TAIL AREA
3. PRODUCT SPECIFICATION: PS-44245-999.
4. THE HOLES FOR THE BOARD LOCKS SHALL NOT BE PLATED THRU.
5. COPPER TRACES NOT RECOMMENDED BENEATH THE STAND-OFF's.

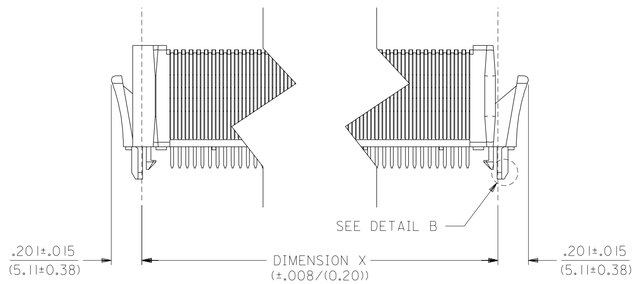


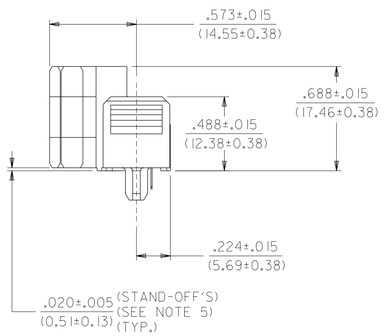
VIEW A-A

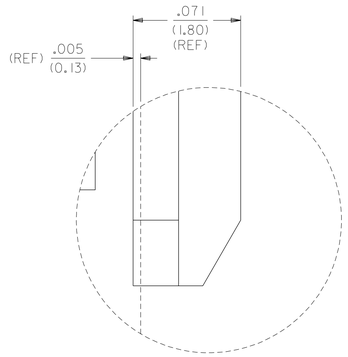
(ALLOWANCE FOR ANGULAR MISALIGNMENT)
(BOTH LIMIT CONDITIONS MUST BE MET)





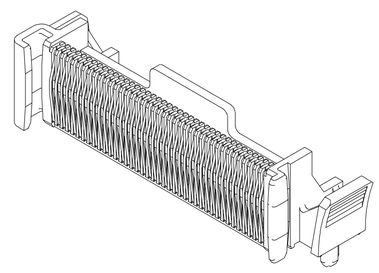






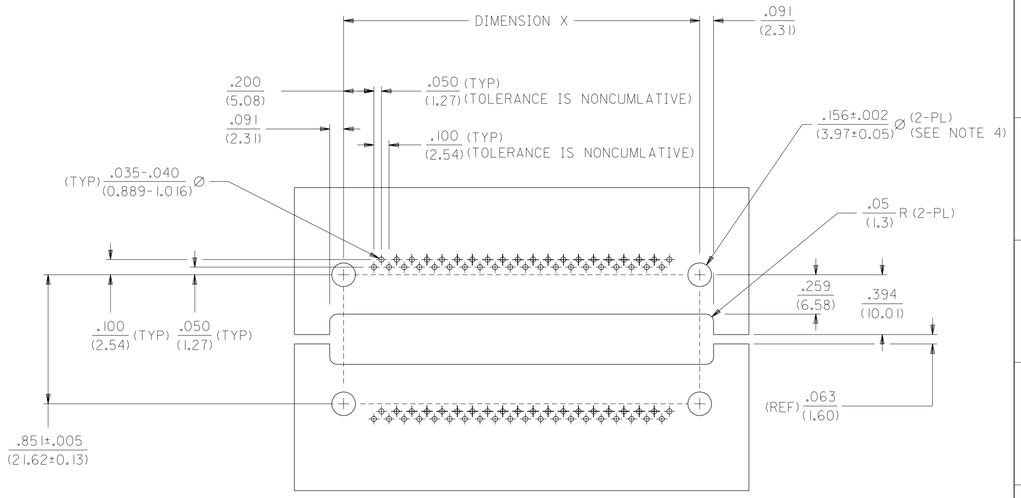
DETAIL B

(SCALE 20:1)



ISOMETRIC PROJECTION OF 442450040

(FORTY CIRCUITS)



RECOMMENDED LAYOUT FOR P.C.B.'S

(FORTY CIRCUIT CONFIGURATION IS PROTRAYED)

MATERIAL NUMBER	CIRCUIT SIZE	DIMENSION X
44245010	10	.850/(21.59)
442450020	20	1.350/(34.29)
442450030	30	1.850/(46.99)
442450040	40	2.350/(59.69)
442450050	50	2.850/(72.39)
442450060	60	3.350/(85.09)

REVISED
EC NO: UCP2004-2332 04052
DRWN: PELOZA 04052
CH'K: PELOZA 04052
APPR: COMERCI 04052
DESCRIPTION
REV

QUALITY SYMBOLS
MAJOR =0
CRITICAL =0

GENERAL TOLERANCES: (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±0.---	±.---
3 PLACES	±0.---	±.003
2 PLACES	±0.08	±.010
1 PLACE	±0.25	±.---

ANGULAR: ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE 2 : 1
DESIGN UNITS ☐mm ☒INCH
THIRD ANGLE PROJECTION
DIMENSIONS: ☐mm INCH ☒INCH mm ☐mm ONLY
SHT REV
REVISE ON CAD ONLY

DRAWN BY & DATE: PELOZA 99/01/25
CHECKED BY & DATE: PELOZA 99/01/25
APPROVED BY & DATE: COMERCI 99/01/25
CAD FILENAME

TITLE: PASS THRU CONNECTOR ASSEMBLY HERMAPHRODITIC MATE

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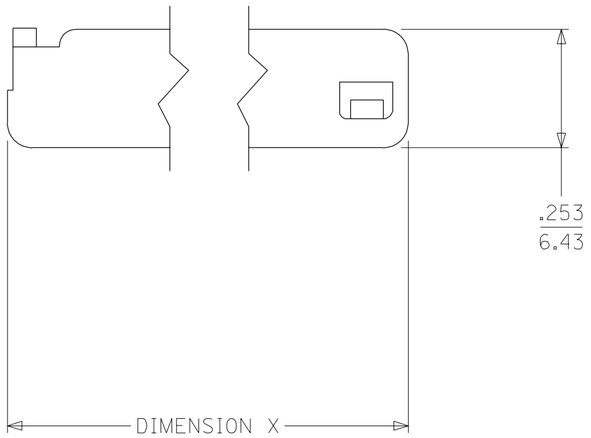
MATERIAL NO.: SEE CHART
DRAWING NO.: SD -44245-002
SHEET NO.: 1 OF 1
SIZE: D

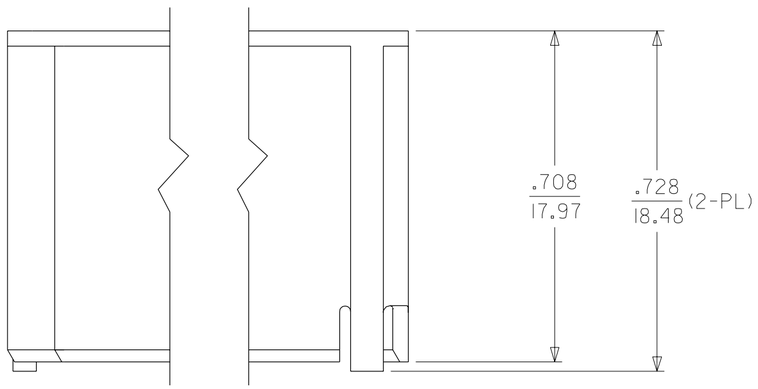
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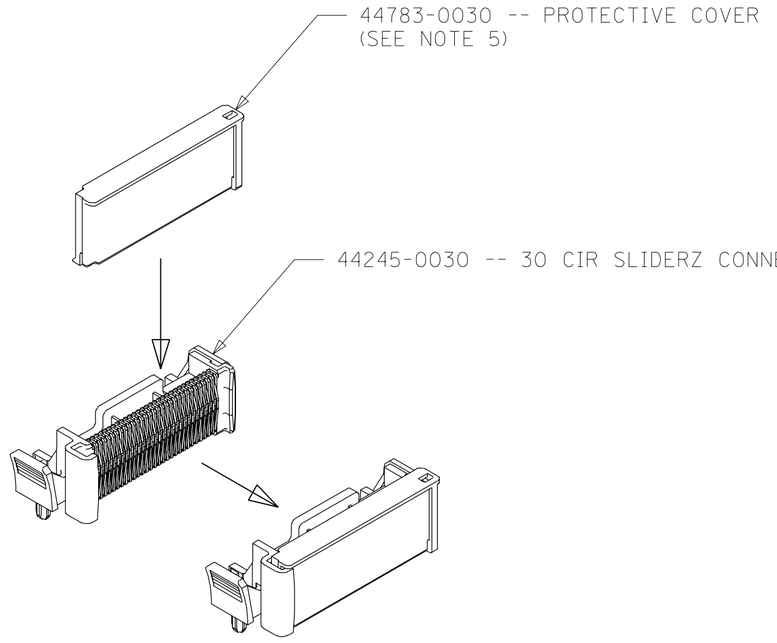
NOTES:

1. MATERIAL: 66 NYLON, COLOR = BLACK.
2. FINISH: NOT APPLICABLE.
3. PRODUCT SPECIFICATION: NOT APPLICABLE.
4. DIMENSIONS AND FEATURES PLACED ACROSS A CENTERLINE TO BE SYMMETRIC ABOUT THAT CENTERLINE TO WITHIN .004"/0.10mm TOTAL.
5. THE PROTECTIVE COVER IS CAREFULLY PUSHED ONTO THE SLIDERZ CONNECTOR UNTIL THE LATCHING MEMBERS ENGAGE, WHICH IS SIGNALED BY A "SNAP."

MATERIAL NUMBER	DIMENSION X	DESCRIPTION
447830010	.856"/21.74mm	PROTECTIVE COVER FOR THE 10 CIRCUIT SLIDERZ
447830020	1.356"/34.44mm	CONTACT FACTORY FOR AVAILABILITY -- PROTECTIVE COVER FOR THE 20 CIRCUIT SLIDERZ
447830030	1.856"/47.14mm	CONTACT FACTORY FOR AVAILABILITY -- PROTECTIVE COVER FOR THE 30 CIRCUIT SLIDERZ
447830040	2.356"/59.84mm	CONTACT FACTORY FOR AVAILABILITY -- PROTECTIVE COVER FOR THE 40 CIRCUIT SLIDERZ
447830050	2.856"/72.54mm	CONTACT FACTORY FOR AVAILABILITY -- PROTECTIVE COVER FOR THE 50 CIRCUIT SLIDERZ
447830060	3.356"/85.24mm	CONTACT FACTORY FOR AVAILABILITY -- PROTECTIVE COVER FOR THE 60 CIRCUIT SLIDERZ







ISOMETRIC PROJECTION OF 44783 AND ITS APPLICATION

(NO SCALE)

REVISED
EC NO. UCP2003-0626 02/10/11
DRWN: PELOZA 02/10/11
CH'K: PELOZA 02/10/11
APPR: COMERCI 02/10/11
DESCRIPTION
REV
B

QUALITY SYMBOLS
MAJOR =0
CRITICAL C =0

GENERAL TOLERANCES: (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±0.---	±.---
3 PLACES	±0.---	±.010
2 PLACES	±0.25	±.015
1 PLACE	±0.38	±.---

ANGULAR: ± 1 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE 4 : 1
DESIGN UNITS ☐mm ☒INCH
THIRD ANGLE PROJECTION
DIMENSIONS: ☐ mm/INCH ☒ INCH/mm ☐ mm ONLY
SHT REV
REVISE ON CAD ONLY

DRAWN BY & DATE: PELOZA 00/08/16
CHECKED BY & DATE: PELOZA 00/08/16
APPROVED BY & DATE: COMERCI 00/08/16
CAD FILENAME

TITLE: PROTECTIVE COVER FOR SLIDERZ

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MATERIAL NO.: SEE CHART
DRAWING NO.: SD -44783-001
SHEET NO.: 1 OF 1

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SIZE C