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Part Number: [0458300223](#)
Status: **Active**
Description: 1.20mm (.047") by 2.00mm (.079") Pitch HD Mezz™ Plug, 299 Circuits, 8.00mm (.315") Unmated Height, 23 Rows, Tin (Sn) Plating

Documents:

[3D Model](#) [Product Specification PS-45802-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

General

Product Family PCB Headers
Series [45830](#)
Application Board-to-Board
Comments 1.20mm (.047") Pitch Pin-to-Pin and 2.00mm (.079") Pitch Row-to-Row
Product Name HD Mezz™

Physical

Breakaway No
Circuits (Loaded) 299
Circuits (maximum) 299
Circuits Detail 299
Color - Resin Black
Durability (mating cycles max) 100
First Mate / Last Break No
Flammability 94V-0
Glow-Wire Compliant No
Guide to Mating Part No
Keying to Mating Part None
Lock to Mating Part Yes
Material - Metal High Performance Alloy (HPA)
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Number of Rows 23
Orientation Vertical
PCB Locator Yes
PCB Retention Yes
Packaging Type Tray
Pitch - Mating Interface (in) 0.047 In
Pitch - Mating Interface (mm) 1.20 mm
Pitch - Term. Interface (in) 0.047 In
Pitch - Term. Interface (mm) 1.20 mm
Plating min: Mating (µin) 30
Plating min: Mating (µm) 0.75
Plating min: Termination (µin) 100
Plating min: Termination (µm) 2.5
Polarized to Mating Part Yes
Polarized to PCB Yes
Robotic Placement Vacuum Pick-Up Clip
Shrouded Closed Ends
Stackable No

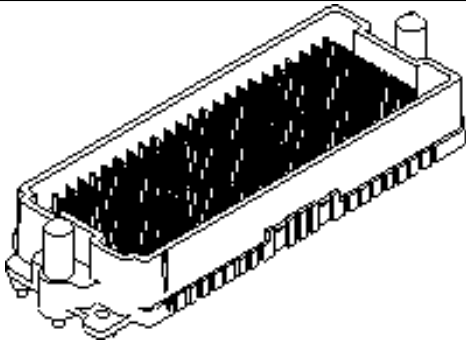


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Not Reviewed
**Halogen-Free
Status**

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
[45830Series](#)

Mates With
[45802 HD Mezz™ Receptacle](#)

Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	2A
Voltage - Maximum	250V AC

Solder Process Data

Duration at Max. Process Temperature (seconds)	20
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	2
Process Temperature max. C	260

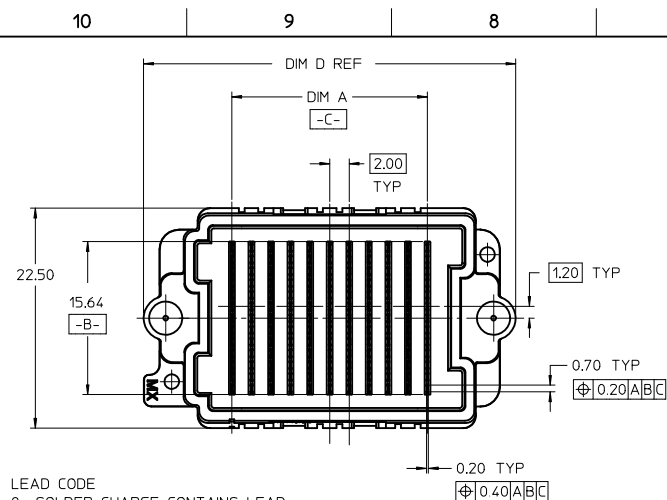
Material Info

Reference - Drawing Numbers

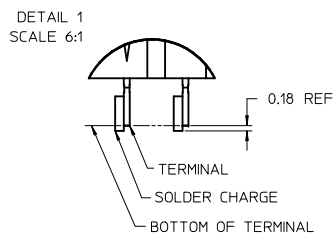
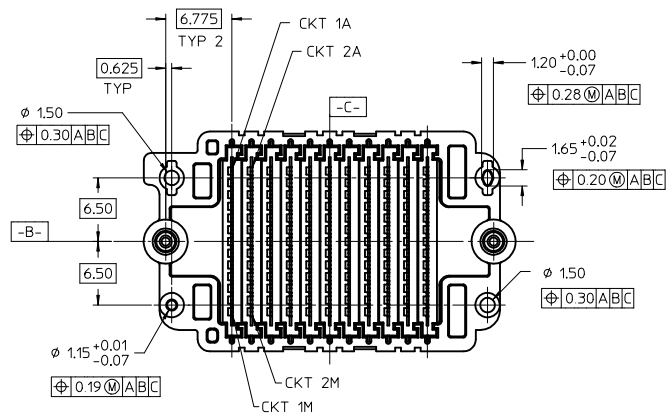
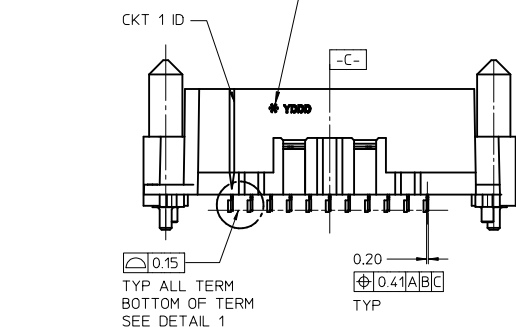
Product Specification	PS-45802-001
Sales Drawing	SD-45830-001

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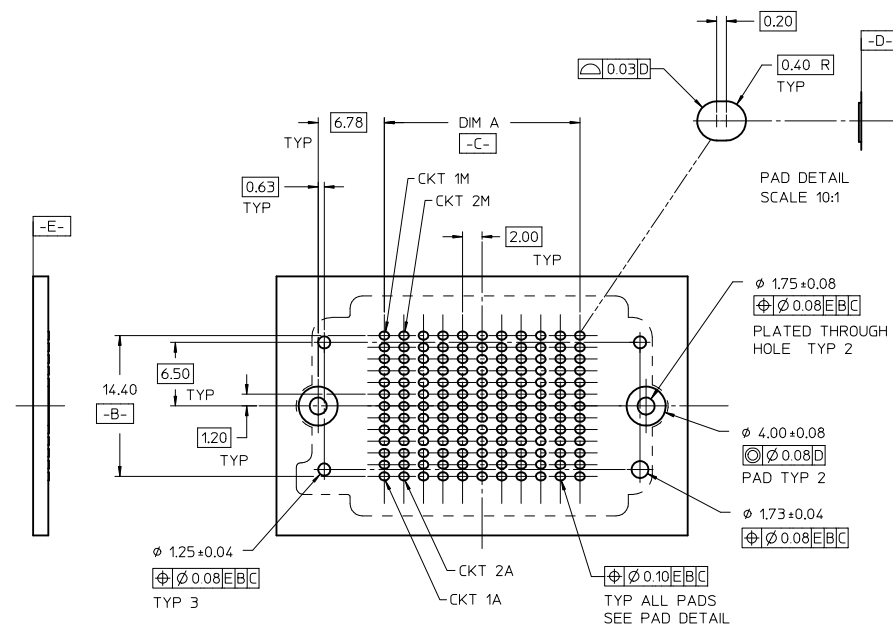


LEAD CODE
0= SOLDER CHARGE CONTAINS LEAD
2= SOLDER CHARGE IS LEAD FREE -



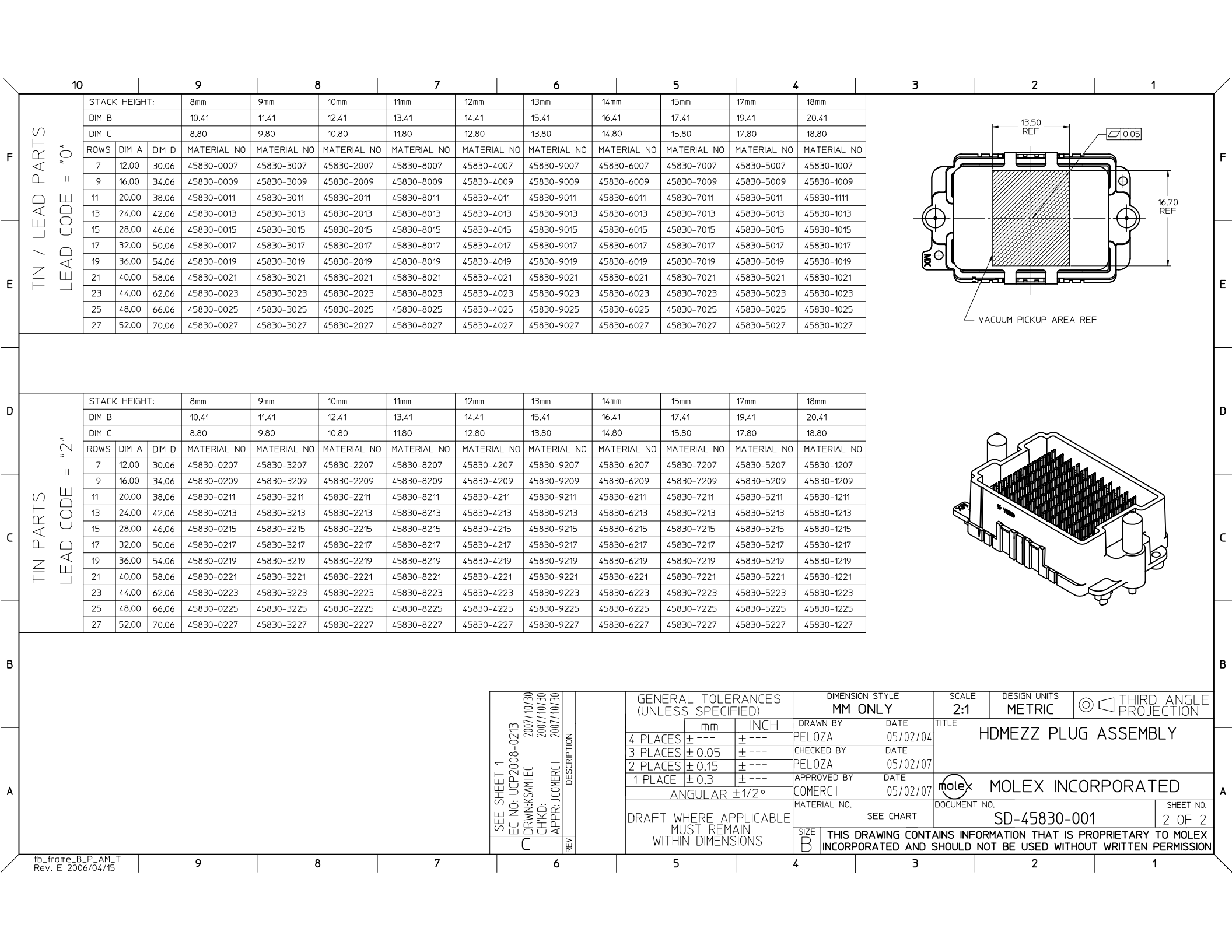
NOTES:

1. HOUSING MATERIAL: LCP, GLASS FILLED, UL94V-0, BLACK
CONTACT MATERIAL: HIGH PERFORMANCE ALLOY
GUIDE PIN MATERIAL: STAINLESS STEEL
SOLDER CHARGE MATERIAL: TIN OR TIN/LEAD SEE CHART
2. CONTACT FINISH: SELECT GOLD: 30 MI MIN IN CONTACT AREA
SELECT TIN: 100 MI MIN IN TAIL AREA BOTH OVER NICKEL
3. PRODUCT SPECIFICATION: PS-45802-001
4. COSMETIC SPECIFICATION: PS-45499-002 CLASS B
5. PACKAGING SPECIFICATION: PK-45830-001
6. -C- IS THE CENTERLINE OF THE 2 END SLOTS. END SLOT CENTERLINES ARE ESTABLISHED USING 2 MEASUREMENTS FOR EACH SLOT TAKEN 7,28 EITHER SIDE -B-



RECOMMENDED PCB LAYOUT: COMPONENT SIDE
PCB THICKNESS: NA

REV PER PART EC NO: UCP2008-0213 DRWN:KSM/EC CHKD: APPR: JCOMERC I	2007/10/30 2007/10/30 2007/10/30	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY	DATE	TITLE HDMEZZ PLUG ASSEMBLY			
			4 PLACES	± ---	± ---	PELOZA	05/02/04				
			3 PLACES	± 0.05	± ---	CHECKED BY	DATE	MOLEX MOLEX INCORPORATED			
			2 PLACES	± 0.15	± ---	PELOZA	05/02/07				
			1 PLACE	± 0.3	± ---	APPROVED BY	DATE	SHEET NO. 1 OF 2			
			ANGULAR ±1/2°			COMERC I	05/02/07				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.		SD-45830-001	
						SEE CHART					
						SIZE B	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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