

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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](#)
[Drawing \(PDF\)](#)

[Product Specification PS-45802-001 \(PDF\)](#)
[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

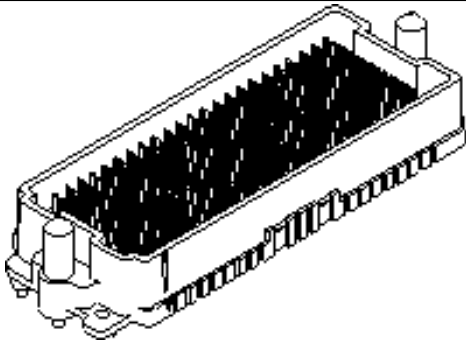


image - Reference only

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](#)

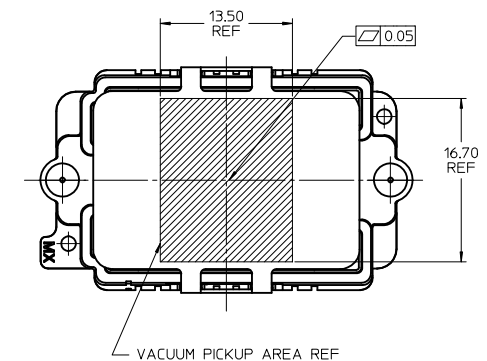
Mates With
[45802 HD Mezz™ Receptacle](#)

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

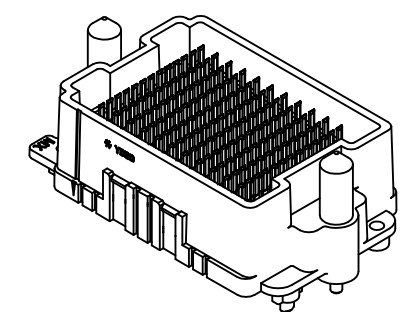
This document was generated on 04/12/2010

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10		9		8		7		6		5		4										
F	STACK HEIGHT:		8mm		9mm		10mm		11mm		12mm		13mm		14mm		15mm		17mm		18mm	
	DIM B		10.41		11.41		12.41		13.41		14.41		15.41		16.41		17.41		19.41		20.41	
	DIM C		8.80		9.80		10.80		11.80		12.80		13.80		14.80		15.80		17.80		18.80	
	ROWS	DIM A	DIM D	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	
	7	12.00	30.06	45830-0007	45830-3007	45830-2007	45830-8007	45830-4007	45830-9007	45830-6007	45830-7007	45830-5007	45830-1007									
	9	16.00	34.06	45830-0009	45830-3009	45830-2009	45830-8009	45830-4009	45830-9009	45830-6009	45830-7009	45830-5009	45830-1009									
	11	20.00	38.06	45830-0011	45830-3011	45830-2011	45830-8011	45830-4011	45830-9011	45830-6011	45830-7011	45830-5011	45830-1111									
	13	24.00	42.06	45830-0013	45830-3013	45830-2013	45830-8013	45830-4013	45830-9013	45830-6013	45830-7013	45830-5013	45830-1013									
	15	28.00	46.06	45830-0015	45830-3015	45830-2015	45830-8015	45830-4015	45830-9015	45830-6015	45830-7015	45830-5015	45830-1015									
	17	32.00	50.06	45830-0017	45830-3017	45830-2017	45830-8017	45830-4017	45830-9017	45830-6017	45830-7017	45830-5017	45830-1017									
	19	36.00	54.06	45830-0019	45830-3019	45830-2019	45830-8019	45830-4019	45830-9019	45830-6019	45830-7019	45830-5019	45830-1019									
	21	40.00	58.06	45830-0021	45830-3021	45830-2021	45830-8021	45830-4021	45830-9021	45830-6021	45830-7021	45830-5021	45830-1021									
23	44.00	62.06	45830-0023	45830-3023	45830-2023	45830-8023	45830-4023	45830-9023	45830-6023	45830-7023	45830-5023	45830-1023										
25	48.00	66.06	45830-0025	45830-3025	45830-2025	45830-8025	45830-4025	45830-9025	45830-6025	45830-7025	45830-5025	45830-1025										
27	52.00	70.06	45830-0027	45830-3027	45830-2027	45830-8027	45830-4027	45830-9027	45830-6027	45830-7027	45830-5027	45830-1027										



D	TIN PARTS LEAD CODE = "2"														STACK HEIGHT:		8mm	9mm	10mm	11mm	12mm	13mm	14mm	15mm	17mm	18mm	
															DIM B		10.41	11.41	12.41	13.41	14.41	15.41	16.41	17.41	19.41	20.41	
															DIM C		8.80	9.80	10.80	11.80	12.80	13.80	14.80	15.80	17.80	18.80	
															ROWS	DIM A	DIM D	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO
C	TIN PARTS LEAD CODE = "2"														7	12.00	30.06	45830-0207	45830-3207	45830-2207	45830-8207	45830-4207	45830-9207	45830-6207	45830-7207	45830-5207	45830-1207
															9	16.00	34.06	45830-0209	45830-3209	45830-2209	45830-8209	45830-4209	45830-9209	45830-6209	45830-7209	45830-5209	45830-1209
															11	20.00	38.06	45830-0211	45830-3211	45830-2211	45830-8211	45830-4211	45830-9211	45830-6211	45830-7211	45830-5211	45830-1211
															13	24.00	42.06	45830-0213	45830-3213	45830-2213	45830-8213	45830-4213	45830-9213	45830-6213	45830-7213	45830-5213	45830-1213
															15	28.00	46.06	45830-0215	45830-3215	45830-2215	45830-8215	45830-4215	45830-9215	45830-6215	45830-7215	45830-5215	45830-1215
															17	32.00	50.06	45830-0217	45830-3217	45830-2217	45830-8217	45830-4217	45830-9217	45830-6217	45830-7217	45830-5217	45830-1217
															19	36.00	54.06	45830-0219	45830-3219	45830-2219	45830-8219	45830-4219	45830-9219	45830-6219	45830-7219	45830-5219	45830-1219
															21	40.00	58.06	45830-0221	45830-3221	45830-2221	45830-8221	45830-4221	45830-9221	45830-6221	45830-7221	45830-5221	45830-1221
															23	44.00	62.06	45830-0223	45830-3223	45830-2223	45830-8223	45830-4223	45830-9223	45830-6223	45830-7223	45830-5223	45830-1223
																TIN PARTS LEAD CODE = "2"											
27	52.00	70.06	45830-0227	45830-3227	45830-2227	45830-8227	45830-4227	45830-9227	45830-6227	45830-7227	45830-5227	45830-1227															



SEE SHEET 1
EC NO: UCP2008-0213
DRAWN: KSAMIEC 2007/10/30
CHKD: 2007/10/30
APPR: JCOMERC I 2007/10/30

DESCRIPTION

REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

mm

INCH

4 PLACES ± --- ± ---

3 PLACES ± 0.05 ± ---

2 PLACES ± 0.15 ± ---

1 PLACE ± 0.3 ± ---

ANGULAR ± 1/2°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY
PELOZA

DATE
05/02/04

CHECKED BY

DATE

PELOZA

05/02/07

APPROVED BY
COMERC I

DATE
05/02/07

MATERIAL NO.

SEE CHART

SIZE
B

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SCALE
2:1

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

TITLE
HDMEZZ PLUG ASSEMBLY

MOLEX INCORPORATED

DOCUMENT NO.
SD-45830-001

SHEET NO.
2 OF 2