

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0458020223](#)
Status: **Active**
Description: 1.20mm (.047") x 2.00mm (.079") Pitch HD Mezz™ Receptacle, 299 Circuits, 8.00mm (.315") Unmated Height, 23 Rows, Lead Free

Documents:

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

Agency Certification

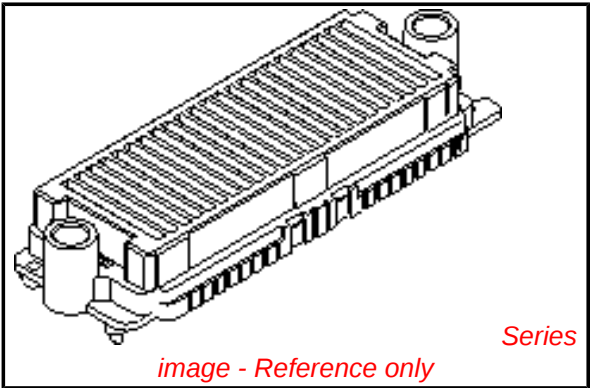
CSA LR19980
UL E29179

General

Product Family PCB Receptacles
Series [45802](#)
Application Board-to-Board
Comments 1.20mm (.047") Pitch Pin-to-Pin and 2.00mm (.079") Pitch Row-to-Row
Product Name Mezzanine

Physical

Circuits (Loaded) 299
Circuits (maximum) 299
Color - Resin Black
Durability (mating cycles max) 100
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
PC Tail Length (in) 0.000 In
PC Tail Length (mm) 0.00 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.000 In
PCB Thickness Recommended (mm) 0.00 mm
Packaging Type Tray
Pitch - Mating Interface (in) 0.079 In
Pitch - Mating Interface (mm) 2.00 mm
Pitch - Term. Interface (in) 0.079 In
Pitch - Term. Interface (mm) 2.00 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 Tape
Stackable No



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
[45802Series](#)

Mates With
[45830 HD Mezz™ Plug](#)

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

Electrical

Current - Maximum per Contact	2A
Grounding to PCB	No
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

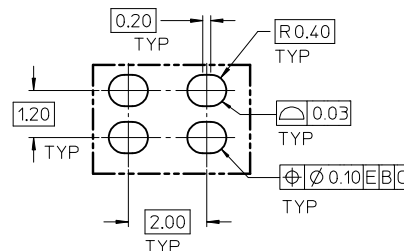
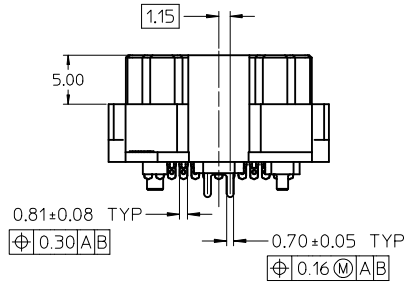
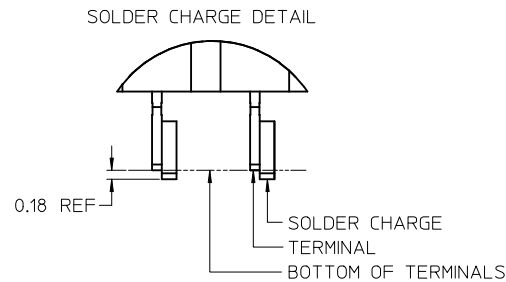
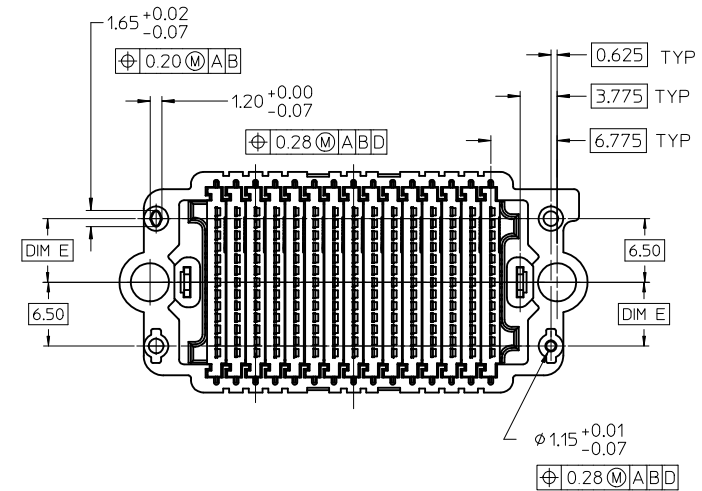
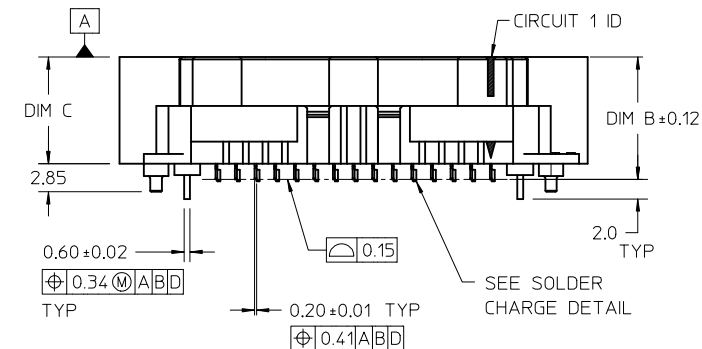
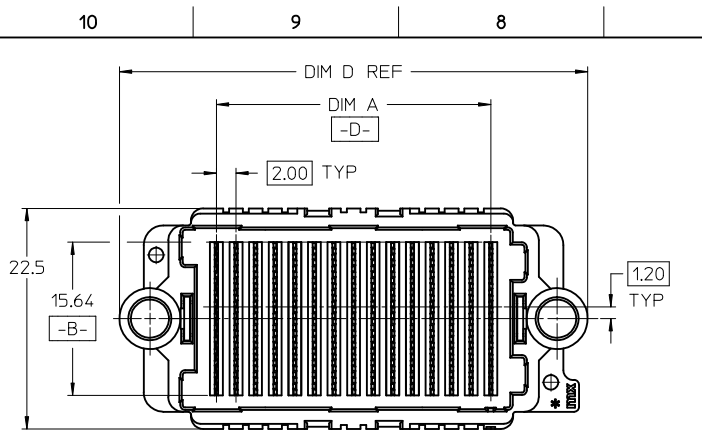
Material Info

Reference - Drawing Numbers

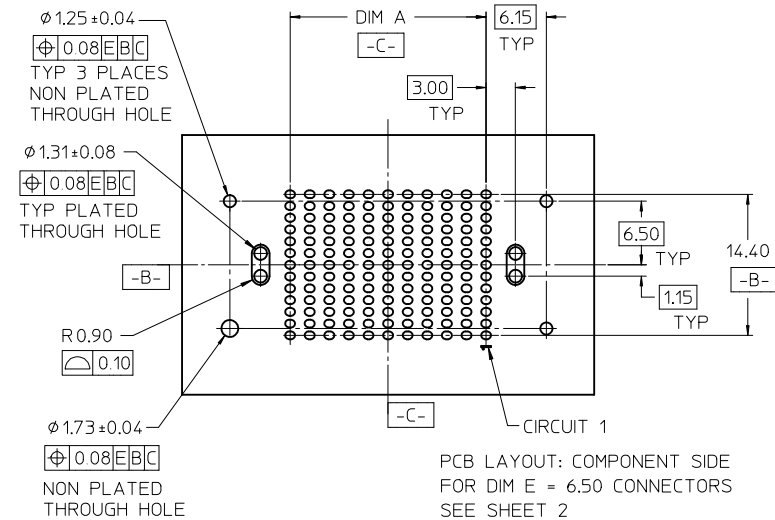
Product Specification	PS-45802-001
Sales Drawing	SD-45802-001

This document was generated on 04/12/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

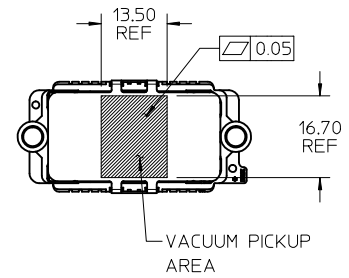


- NOTES:
- HOUSING MATERIAL: LCP, GLASS FILLED, UL 94V-0, BLACK
CONTACT MATERIAL: HIGH PERFORMANCE ALLOY
SOLDER NAIL MATL: STAINLESS STEEL
SOLDER CHARGE MATL: SEE CHART
 - FINISH: SELECT GOLD 30 M.I. MIN IN CONTACT AREA
SELECT TIN: 100 M.I. MIN IN PCB TAIL
BOTH OVER NICKEL
 - PRODUCT SPECIFICATION: PS-45802-001
 - COSMETIC SPECIFICATION, PS-45499-002 CLASS B
 - PACKAGING SPECIFICATION: PK-45802-001
 - DATUM -D- IS THE CENTERLINE OF THE 2 END SLOTS. END SLOT CENTERLINES ARE ESTABLISHED USING 2 MEASUREMENTS FOR EACH SLOT TAKEN 7.20 EITHER SIDE OF DATUM -B-.
 - THERE ARE 13 CKTS PER ROW

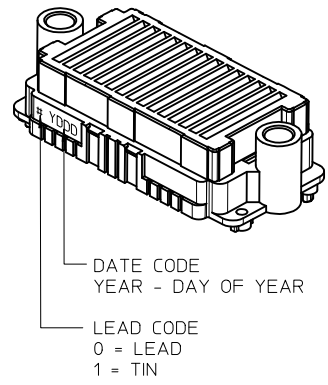


UPDATE EC NO: UCP2010-2574 DRWN:KSA/IEC 2010/05/05 CHKD:PELOZA 05/02/07 APPR: JCOMERC I 2010/05/07	D2	REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
						mm	INCH	DRAWN BY PELOZA	DATE 05/02/04	TITLE HIGH DENSITY MEZZANINE RECEPTACLE ASSEMBLY		
					4 PLACES	± ---	± ---	CHECKED BY	DATE			
					3 PLACES	± 0.050	± ---	PELOZA	05/02/07			
					2 PLACES	± 0.15	± ---	APPROVED BY JCOMERC I	DATE 2009/12/23			
		1 PLACE	± 0.3	± ---	ANGULAR ±1/2°		MATERIAL NO. SEE CHART	DOCUMENT NO. SD-45802-001	SHEET NO. 1 OF 3			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					SIZE B	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

10			9			8			7			6			5			4			3		
F	STACK HEIGHT:			8 mm		9 mm		10 mm		11 mm		12 mm		13 mm		14 mm		15 mm		17 mm		18 mm	
	DIM B:			10.51		11.51		12.51		13.51		14.51		15.51		16.51		17.51		19.51		20.51	
	DIM C:			8.90		9.90		10.90		11.90		12.90		13.90		14.90		15.90		17.90		18.90	
	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	MATERIAL No	
	07	12.00	31.89	45802-0007	45802-3007	45802-2007	45802-8007	45802-4007	45802-9007	45802-6007	45802-7007	45802-5007	45802-1007										
	09	16.00	35.89	45802-0009	45802-3009	45802-2009	45802-8009	45802-4009	45802-9009	45802-6009	45802-7009	45802-5009	45802-1009										
	11	20.00	39.89	45802-0011	45802-3011	45802-2011	45802-8011	45802-4011	45802-9011	45802-6011	45802-7011	45802-5011	45802-1011										
	13	24.00	43.89	45802-0013	45802-3013	45802-2013	45802-8013	45802-4013	45802-9013	45802-6013	45802-7013	45802-5013	45802-1013										
	15	28.00	47.89	45802-0015	45802-3015	45802-2015	45802-8015	45802-4015	45802-9015	45802-6015	45802-7015	45802-5015	45802-1015										
	17	32.00	51.89	45802-0017	45802-3017	45802-2017	45802-8017	45802-4017	45802-9017	45802-6017	45802-7017	45802-5017	45802-1017										
E	19	36.00	55.89	45802-0019	45802-3019	45802-2019	45802-8019	45802-4019	45802-9019	45802-6019	45802-7019	45802-5019	45802-1019										
	21	40.00	59.89	45802-0021	45802-3021	45802-2021	45802-8021	45802-4021	45802-9021	45802-6021	45802-7021	45802-5021	45802-1021										
	23	44.00	63.89	45802-0123	45802-3023	45802-2023	45802-8023	45802-4023	45802-9023	45802-6023	45802-7023	45802-5023	45802-1123										
	25	48.00	67.89	45802-0025	45802-3025	45802-2025	45802-8025	45802-4025	45802-9025	45802-6025	45802-7025	45802-5025	45802-1025										
	27	52.00	71.89	45802-0027	45802-3027	45802-2027	45802-8027	45802-4027	45802-9027	45802-6027	45802-7027	45802-5027	45802-1027										

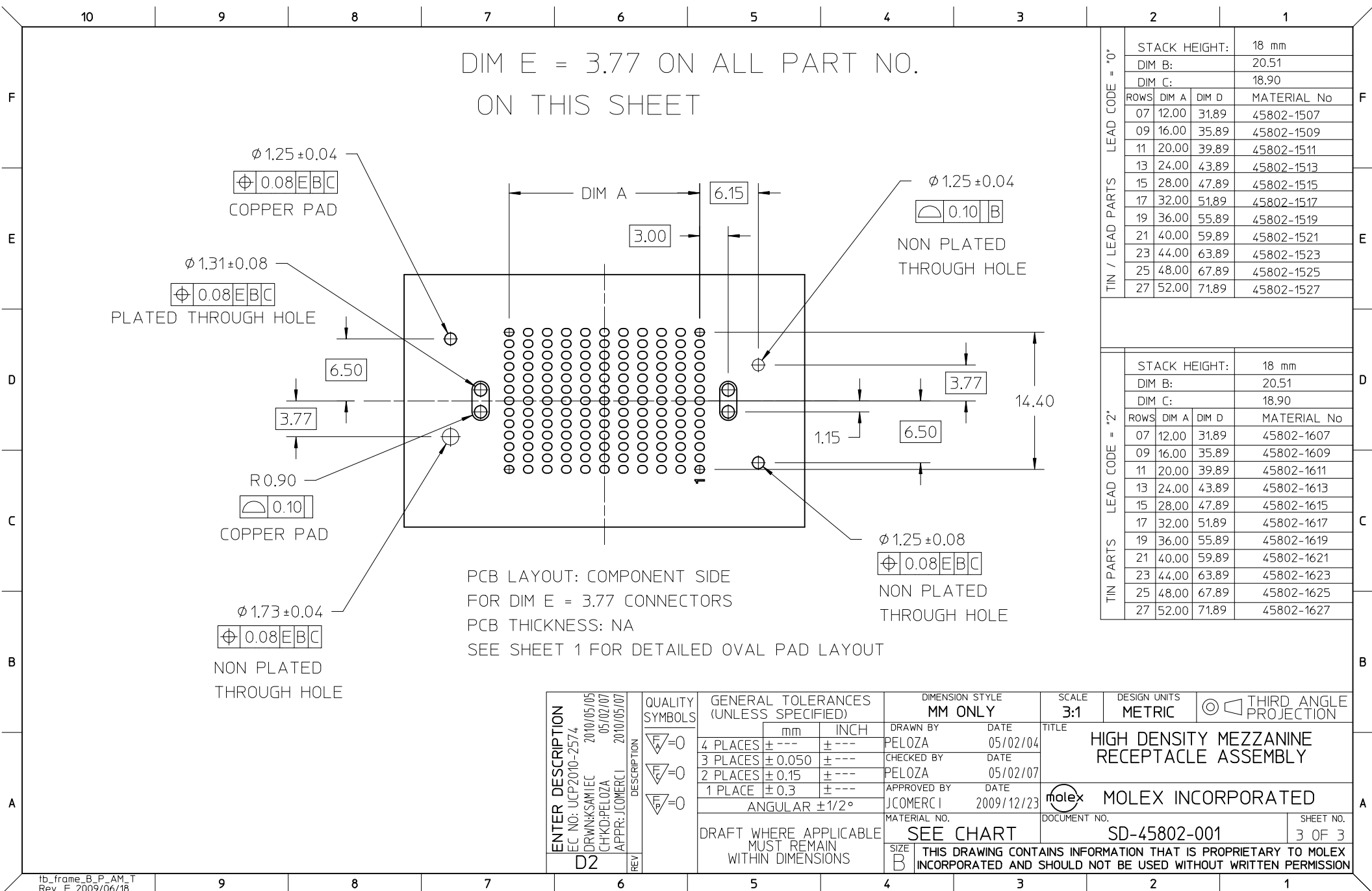


D	LEAD CODE = "2"												
	STACK HEIGHT:			8 mm	9 mm	10 mm	11 mm	12 mm	13 mm	14 mm	15 mm	17 mm	18 mm
	DIM B:			10.51	11.51	12.51	13.51	14.51	15.51	16.51	17.51	19.51	20.51
DIM C:			8.90	9.90	10.90	11.90	12.90	13.90	14.90	15.90	17.90	18.90	
C	ROWS	DIM A	DIM D	MATERIAL No	MATERIAL No	MATERIAL No	MATERIAL No	MATERIAL No	MATERIAL No	MATERIAL No	MATERIAL No	MATERIAL No	MATERIAL No
	07	12.00	31.89	45802-0207	45802-3207	45802-2207	45802-8207	45802-4207	45802-9207	45802-6207	45802-7207	45802-5207	45802-1207
	09	16.00	35.89	45802-0209	45802-3209	45802-2209	45802-8209	45802-4209	45802-9209	45802-6209	45802-7209	45802-5209	45802-1209
	11	20.00	39.89	45802-0311	45802-3211	45802-2211	45802-8211	45802-4211	45802-9211	45802-6211	45802-7211	45802-5211	45802-1211
	13	24.00	43.89	45802-0213	45802-3213	45802-2213	45802-8213	45802-4213	45802-9213	45802-6213	45802-7213	45802-5213	45802-1213
	15	28.00	47.89	45802-0215	45802-3215	45802-2215	45802-8215	45802-4215	45802-9215	45802-6215	45802-7215	45802-5215	45802-1215
	17	32.00	51.89	45802-0217	45802-3217	45802-2217	45802-8217	45802-4217	45802-9217	45802-6217	45802-7217	45802-5217	45802-1217
	19	36.00	55.89	45802-0219	45802-3219	45802-2219	45802-8219	45802-4219	45802-9219	45802-6219	45802-7219	45802-5219	45802-1219
	21	40.00	59.89	45802-0221	45802-3221	45802-2221	45802-8221	45802-4221	45802-9221	45802-6221	45802-7221	45802-5221	45802-1221
	23	44.00	63.89	45802-0223	45802-3223	45802-2223	45802-8223	45802-4223	45802-9223	45802-6223	45802-7223	45802-5223	45802-1223
B	25	48.00	67.89	45802-0225	45802-3225	45802-2225	45802-8225	45802-4225	45802-9225	45802-6225	45802-7225	45802-5225	45802-1225
	27	52.00	71.89	45802-0227	45802-3227	45802-2227	45802-8227	45802-4227	45802-9227	45802-6227	45802-7227	45802-5227	45802-1227



DIM E = 6.50 ON ALL PART NO.
ON THIS SHEET

SEE SHEET 1 EC NO: UCP2010-2574 DRWN:KSM/IEC 2010/05/05 CHKD:PELOZA 05/02/07 APPR:JCOMERC I 2010/05/07 DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		mm	INCH	DRAWN BY PELOZA	DATE 05/02/04	TITLE HIGH DENSITY MEZZANINE RECEPTACLE ASSEMBLY			
	4 PLACES	± ---	± ---	CHECKED BY PELOZA	DATE 05/02/07				
	3 PLACES	± 0.050	± ---	APPROVED BY JCOMERC I		DATE 2009/12/23	MOLEX INCORPORATED DOCUMENT NO. SD-45802-001		
	2 PLACES	± 0.15	± ---	MATERIAL NO.		SEE CHART			
1 PLACE	± 0.3	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE B	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



DIM E = 3.77 ON ALL PART NO.
ON THIS SHEET

$\phi 1.25 \pm 0.04$
 $\phi 0.08$ EBC
COPPER PAD

$\phi 1.31 \pm 0.08$
 $\phi 0.08$ EBC
PLATED THROUGH HOLE

R0.90
 $\phi 0.10$
COPPER PAD

$\phi 1.73 \pm 0.04$
 $\phi 0.08$ EBC
NON PLATED
THROUGH HOLE

$\phi 1.25 \pm 0.04$
 $\phi 0.10$ B
NON PLATED
THROUGH HOLE

$\phi 1.25 \pm 0.08$
 $\phi 0.08$ EBC
NON PLATED
THROUGH HOLE

PCB LAYOUT: COMPONENT SIDE
FOR DIM E = 3.77 CONNECTORS
PCB THICKNESS: NA
SEE SHEET 1 FOR DETAILED OVAL PAD LAYOUT

LEAD CODE = "0"	STACK HEIGHT:		18 mm
	DIM B:		20.51
	DIM C:		18.90
	ROWS	DIM A	DIM D
TIN / LEAD PARTS	07	12.00	31.89
	09	16.00	35.89
	11	20.00	39.89
	13	24.00	43.89
	15	28.00	47.89
	17	32.00	51.89
	19	36.00	55.89
	21	40.00	59.89
	23	44.00	63.89
	25	48.00	67.89
	27	52.00	71.89

LEAD CODE = "2"	STACK HEIGHT:		18 mm
	DIM B:		20.51
	DIM C:		18.90
	ROWS	DIM A	DIM D
TIN PARTS	07	12.00	31.89
	09	16.00	35.89
	11	20.00	39.89
	13	24.00	43.89
	15	28.00	47.89
	17	32.00	51.89
	19	36.00	55.89
	21	40.00	59.89
	23	44.00	63.89
	25	48.00	67.89
	27	52.00	71.89

ENTER DESCRIPTION EC NO: UCP2010-2574 DRW: KSAMIEC 2010/05/05 CHKD: PELOZA 05/02/07 APPR: JCOMERC I 2010/05/07 REV D2	QUALITY SYMBOLS $\nabla = 0$ $\nabla = 0$ $\nabla = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES $\pm$ --- $\pm$ --- 3 PLACES ± 0.050 $\pm$ --- 2 PLACES ± 0.15 $\pm$ --- 1 PLACE ± 0.3 $\pm$ --- ANGULAR $\pm 1/2^\circ$	DIMENSION STYLE MM ONLY DRAWN BY DATE PELOZA 05/02/04 CHECKED BY DATE PELOZA 05/02/07 APPROVED BY DATE JCOMERC I 2009/12/23 MATERIAL NO. SIZE B	SCALE 3:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION HIGH DENSITY MEZZANINE RECEPTACLE ASSEMBLY MOLEX INCORPORATED SD-45802-001 SHEET NO. 3 OF 3