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Part Number:

0459110048

Status:

Active

Overview:

Description:

12.90mm (.508") Pitch EXTreme PowerEdge™, Mixed Power/Signal Card Edge Connector, Double Sided, 4 Segments (Signal, Power, Signal, Signal Sequence), Through Hole Solder for 1.57mm (.062") Thick PC Board

Agency Certification

CSA	LR 19980
TUV	30482572.001
UL	E29179

General

Product Family	Edge Card Connectors
Series	45911
Component Type	Edgecard to PCB
Overview	edge_card_connectors
Product Name	EXTreme PowerEdge™

Physical

Circuits (Loaded)	26
Circuits (maximum)	26
Circuits Detail	8 Signal, 2 Power, 8 Signal, 8 Signal
Color - Resin	Black
Durability (mating cycles max)	250
Entry Angle	Vertical (Top Entry)
Flammability	94V-0
Keying to Mating Part	N/A
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
PC Tail Length (in)	0.126 In
PC Tail Length (mm)	3.19 mm
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.508 In
Pitch - Mating Interface (mm)	12.90 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.75
Plating min: Termination (µin)	150
Plating min: Termination (µm)	3.75
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	3A, 40A
Voltage - Maximum	250V

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	250

Material Info

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

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

45911Series

Mates With

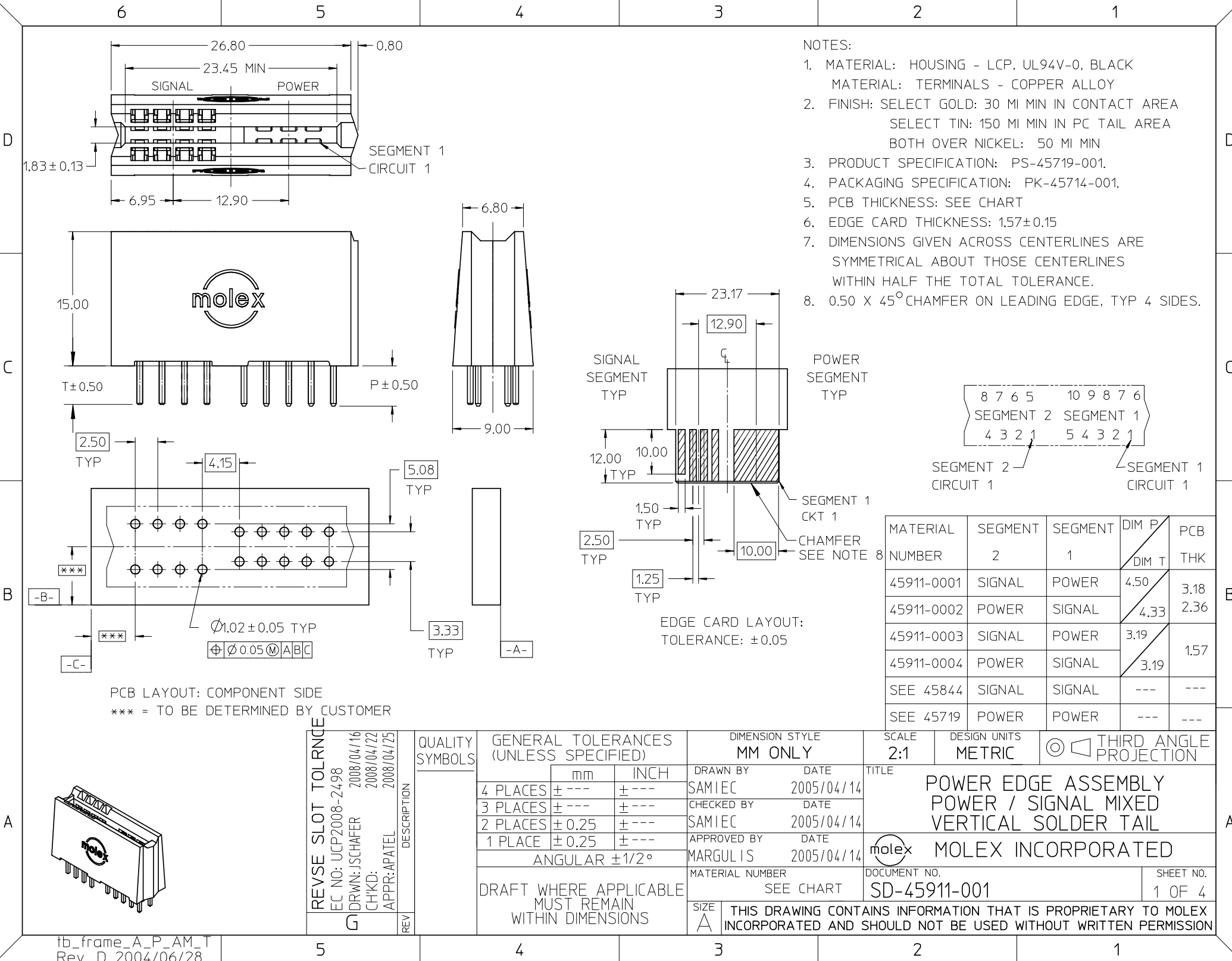
1.58mm (.062") double sided card edge

Reference - Drawing Numbers

Packaging Specification	PK-45714-001
Product Specification	PS-45719-001
Sales Drawing	SD-45911-001

This document was generated on 06/04/2010

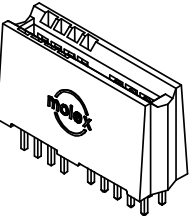
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- NOTES:
1. MATERIAL: HOUSING - LCP, UL94V-0, BLACK
MATERIAL: TERMINALS - COPPER ALLOY
 2. FINISH: SELECT GOLD: 30 MI MIN IN CONTACT AREA
SELECT TIN: 150 MI MIN IN PC TAIL AREA
BOTH OVER NICKEL: 50 MI MIN
 3. PRODUCT SPECIFICATION: PS-45719-001.
 4. PACKAGING SPECIFICATION: PK-45714-001.
 5. PCB THICKNESS: SEE CHART
 6. EDGE CARD THICKNESS: 1.57±0.15
 7. DIMENSIONS GIVEN ACROSS CENTERLINES ARE SYMMETRICAL ABOUT THOSE CENTERLINES WITHIN HALF THE TOTAL TOLERANCE.
 8. 0.50 X 45° CHAMFER ON LEADING EDGE, TYP 4 SIDES.

MATERIAL NUMBER	SEGMENT 2	SEGMENT 1	DIM P DIM T	PCB THK
45911-0001	SIGNAL	POWER	4.50	3.18
45911-0002	POWER	SIGNAL	4.33	2.36
45911-0003	SIGNAL	POWER	3.19	1.57
45911-0004	POWER	SIGNAL	3.19	1.57
SEE 45844	SIGNAL	SIGNAL	---	---
SEE 45719	POWER	POWER	---	---

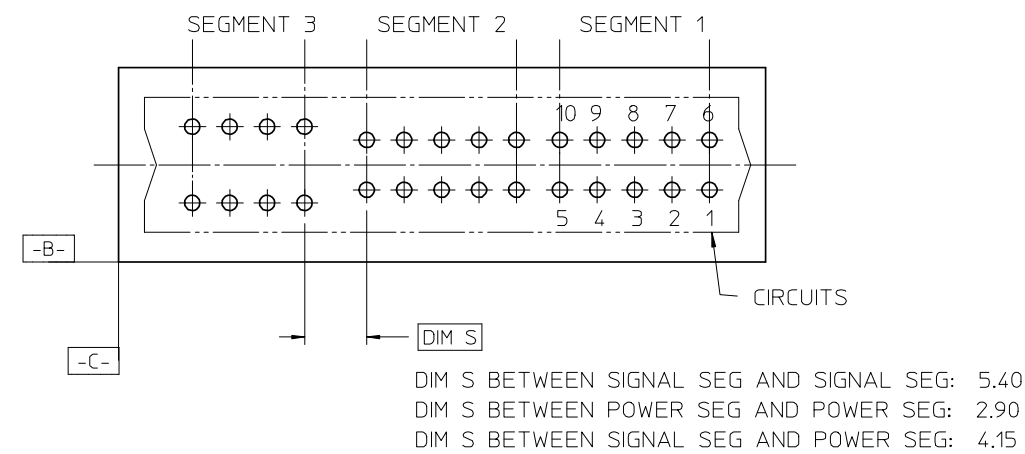
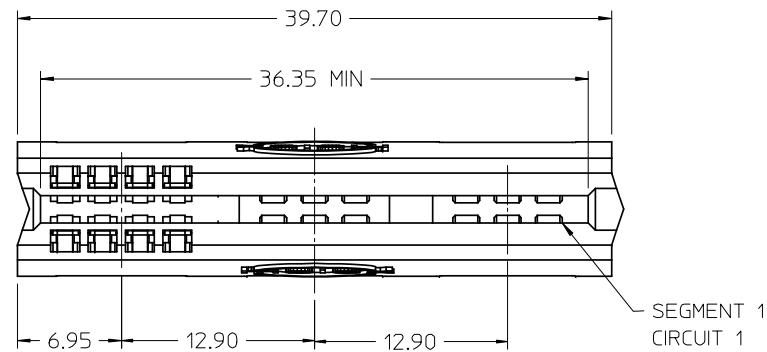
EDGE CARD LAYOUT:
TOLERANCE: ±0.05



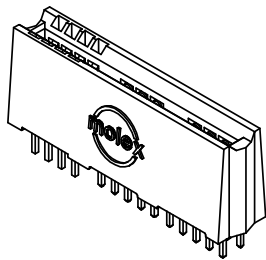
REVISE SLOT TOLERANCE EC NO: UCP2008-2498 DRWN: JSCHAFFER 2008/04/16 CHKD: 2008/04/22 APPR: APATEL 2008/04/25		QUALITY SYMBOLS	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE	
							MM ONLY		2:1		METRIC		PROJECTION	
							DRAWN BY DATE		TITLE POWER EDGE ASSEMBLY POWER / SIGNAL MIXED VERTICAL SOLDER TAIL					
							SAMIEC 2005/04/14							
							CHECKED BY DATE							
							SAMIEC 2005/04/14		MOLEX INCORPORATED					
			APPROVED BY DATE											
			MARGULIS 2005/04/14											
			ANGULAR ±1/2°		MATERIAL NUMBER		DOCUMENT NO.				SHEET NO.			
					SEE CHART		SD-45911-001				1 OF 4			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

6 5 4 3 2 1

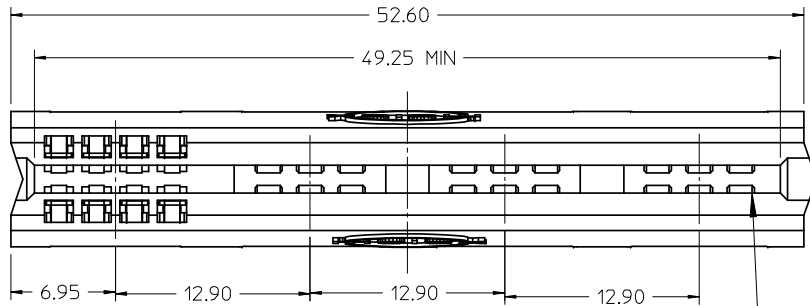
MATERIAL NUMBER: 45911-0007 SHOWN
SEE SHEET ONE FOR ALL OTHER NOTES AND DIMENSIONS



MATERIAL NUMBER	SEGMENT 3	SEGMENT 2	SEGMENT 1	$\frac{DIM P}{DIM T}$	PCB THK
45911-0007	SIGNAL	POWER	POWER	$\frac{4.50}{4.33}$	3.18 2.36
45911-0008	POWER	SIGNAL	POWER		
45911-0009	SIGNAL	SIGNAL	POWER		
45911-0010	SIGNAL	POWER	SIGNAL		
45911-0011	POWER	SIGNAL	SIGNAL		
45911-0012	POWER	POWER	SIGNAL	$\frac{3.19}{3.19}$	1.57
45911-0013	SIGNAL	POWER	POWER		
45911-0014	POWER	SIGNAL	POWER		
45911-0015	SIGNAL	SIGNAL	POWER		
45911-0016	SIGNAL	POWER	SIGNAL		
45911-0017	POWER	SIGNAL	SIGNAL		
45911-0018	POWER	POWER	SIGNAL		

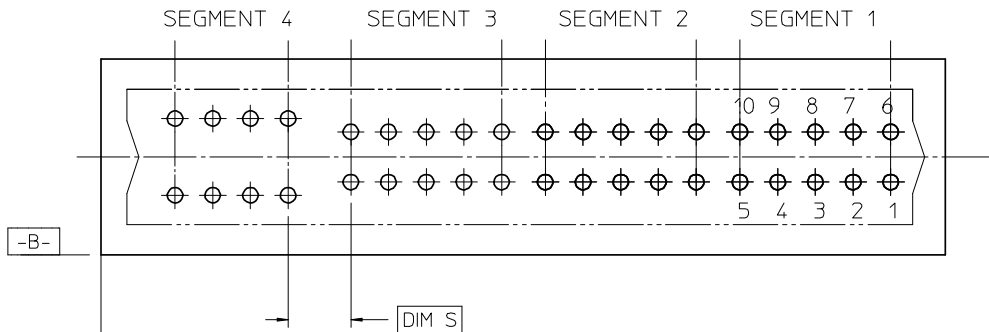


EC NO: UCP2008-2498		DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
G	DRWN: JSCHAFFER 2008/04/16 CHKD: 2008/04/22 APPR: APATEL 2008/04/25				mm	INCH	DRAWN BY DATE		TITLE		POWER EDGE ASSEMBLY POWER / SIGNAL MIXED VERTICAL SOLDER TAIL	
				4 PLACES	± ---	± ---	SAMIEC 2005/04/14					
				3 PLACES	± ---	± ---	CHECKED BY DATE					
				2 PLACES	± 0.25	± ---	SAMIEC 2005/04/14					
				1 PLACE	± 0.25	± ---	APPROVED BY DATE		molex MOLEX INCORPORATED			
				ANGULAR ±1/2°		MARGULIS 2005/04/14						
REV				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NUMBER SEE CHART		DOCUMENT NO. SD-45911-001		SHEET NO. 2 OF 4	
		SIZE A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									



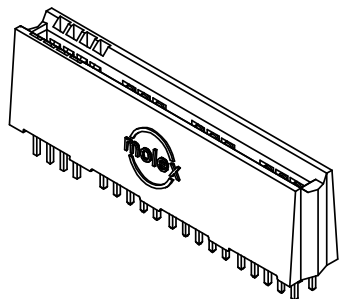
SEGMENT 1
CIRCUIT 1

SEE CHART ON SHEET 4
FOR MATERIAL NUMBERS

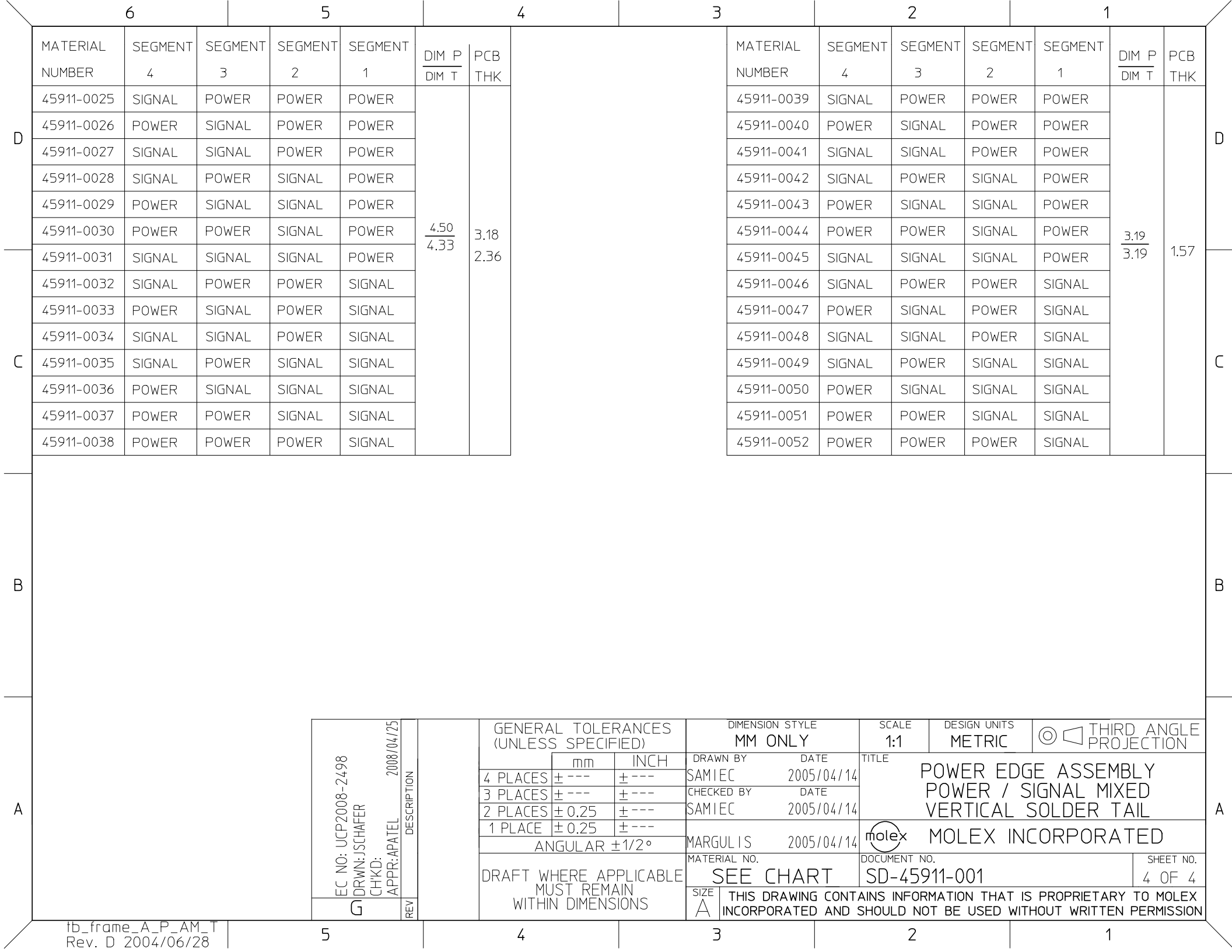


DIM S BETWEEN SIGNAL SEG AND SIGNAL SEG: 5.40
DIM S BETWEEN POWER SEG AND POWER SEG: 2.90
DIM S BETWEEN SIGNAL SEG AND POWER SEG: 4.15

PCB LAYOUT: COMPONENT SIDE



EC NO: UCP2008-2498			DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
DRWN: JSCHAFER 2008/04/16								MM ONLY		2:1	METRIC				
CHKD: 2008/04/22															
APPR: APATEL 2008/04/25															
			REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				DRAWN BY		DATE		TITLE			
								SAMIEC		2005/04/14		POWER EDGE ASSEMBLY			
								CHECKED BY		DATE		POWER / SIGNAL MIXED			
								SAMIEC		2005/04/14		VERTICAL SOLDER TAIL			
								APPROVED BY		DATE		MOLEX INCORPORATED			
					ANGULAR ±1/2°			MARGULIS		2005/04/14		DOCUMENT NO.		SHEET NO.	
												SD-45911-001		3	
								SEE CHART ON SHEET 4							
								SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
								A							



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- Техническую поддержку проекта.
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- Оценку стоимости проекта по компонентам.
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