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Part Number: [0875991001](#)
Status: **Active**
Description: 1.27mm (.050") Pitch EBBI™ 50D, Receptacle, Through Hole, Right Angle, Dual Stack, 4 Rows, with Beveled Metal Pins, with Lubrication, 0.76µm (30µ") Gold (Au) Selective Plating, 136 Circuits, Leadfree

Documents:

[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

General

Product Family PCB Receptacles
Series [87599](#)
Application Board-to-Board
Product Name EBBI™

Physical

Circuits (Loaded) 136
Color - Resin Black
Durability (mating cycles max) 2,000
Glow-Wire Compliant No
Lock to Mating Part None
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Number of Rows 4
Orientation Right Angle
PC Tail Length (in) 0.079 In
PC Tail Length (mm) 2.00 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.60 mm
Packaging Type Tray
Pitch - Mating Interface (in) 0.050 In
Pitch - Mating Interface (mm) 1.27 mm
Plating min: Mating (µin) 30.4
Plating min: Mating (µm) 0.76
Plating min: Termination (µin) 101.6
Plating min: Termination (µm) 2.54
Polarized to PCB Yes
Surface Mount Compatible (SMC) Yes
Temperature Range - Operating -25°C to +85°C
Termination Interface: Style Surface Mount, Through Hole

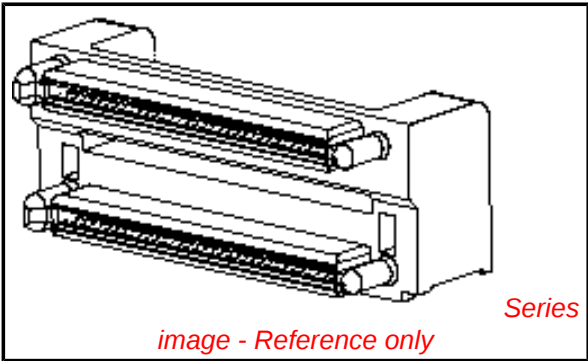
Electrical

Current - Maximum per Contact 1A
Voltage - Maximum 30V

Solder Process Data

Duration at Max. Process Temperature (seconds) 5
Lead-free Process Capability SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature 1
Process Temperature max. C 265

Material Info



EU RoHS

RoHS Compliant by Exemption

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

[87599Series](#)

Mates With

[71661-25**](#)|[71661-7***](#)

Reference - Drawing Numbers

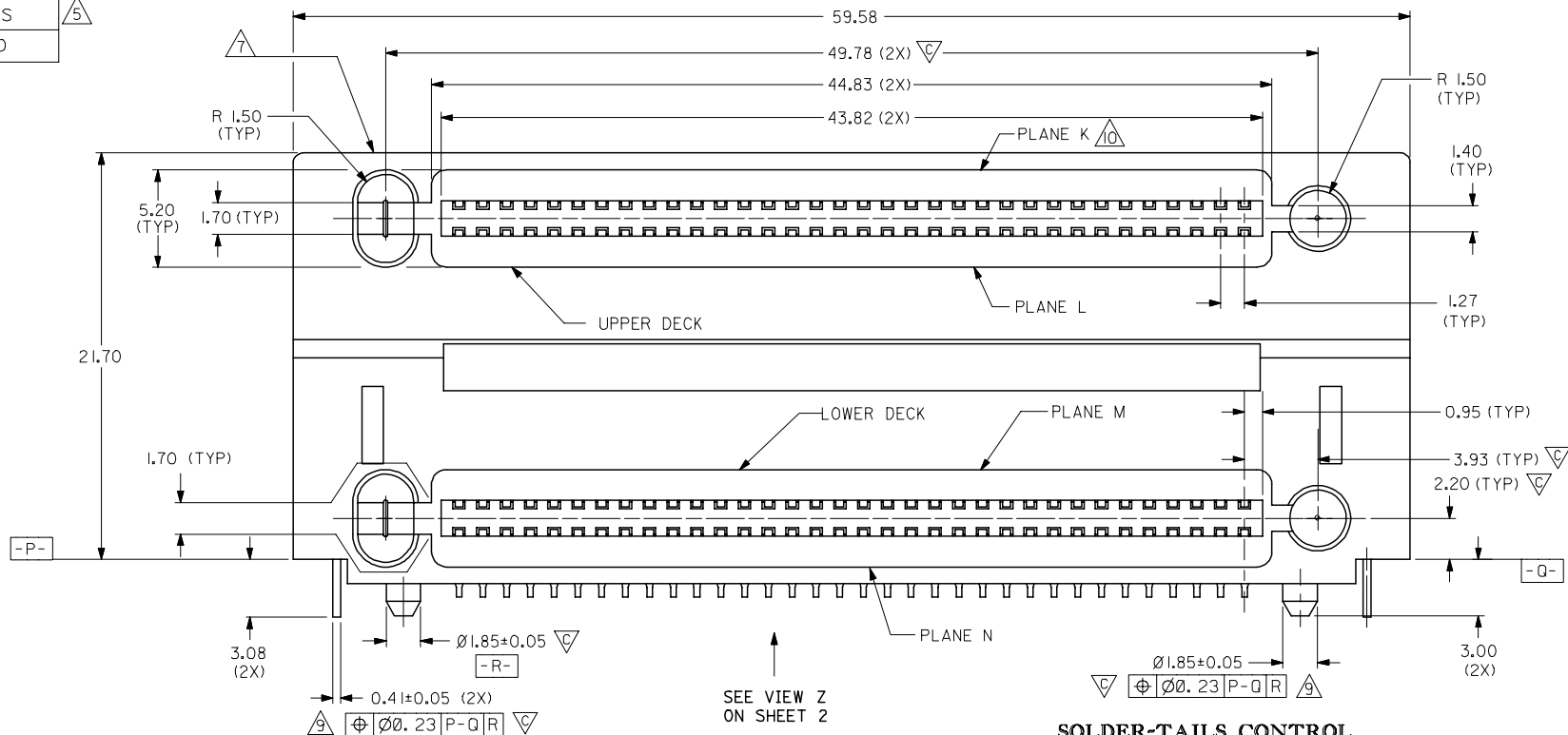
Sales Drawing

SD-87599-001

This document was generated on 03/18/2010

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PART NUMBER	CKT SIZE	LUBRICATION
87599-1001	136	YES
87599-1011	136	NO



NOTES

1. MATERIAL:

HOUSING: LCP, 30% GLASS FILLED, UL94V-0, BLACK

TERMINALS: PHOSPHOR BRONZE

THREADED INSERT: BRASS

2. PLATING:

0.76um MIN. GOLD IN SELECTIVE CONTACT AREA AND

2.54um MIN. TIN IN SOLDER-TAIL AREA,

BOTH OVER 1.27um MIN. NICKEL.

3. RECOMMENDED PCB THICKNESS IS 1.57mm.

4. CIRCUIT #58 TO BE RECESSED 0.50mm. BEHIND ALL OTHER CONTACTS.

5. LUBRICATION TYPE IS NYETACT 570H-2

6. TO MATE WITH MOLEX P/N 71661-7068

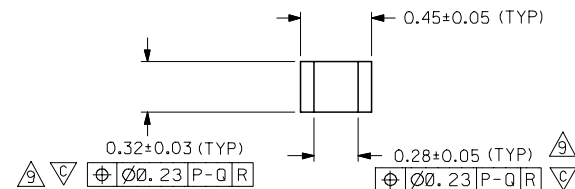
4-DIGIT DATECODE "YYWW" TO BE LOCATED AS SHOWN. EXAMPLE: "9818"

8. THREADED INSERT DEPTH FROM SEATING PLANE IS 7.70mm.

9. ALL POSITIONAL TOLERANCE TO BE GAUGED.

10. BOW ALLOWABLE ON PLANE K, L, M, N SHALL BE
0.13mm MAX BEFORE IR AND 0.20mm MAX AFTER IR

SOLDER-TAILS CONTROL



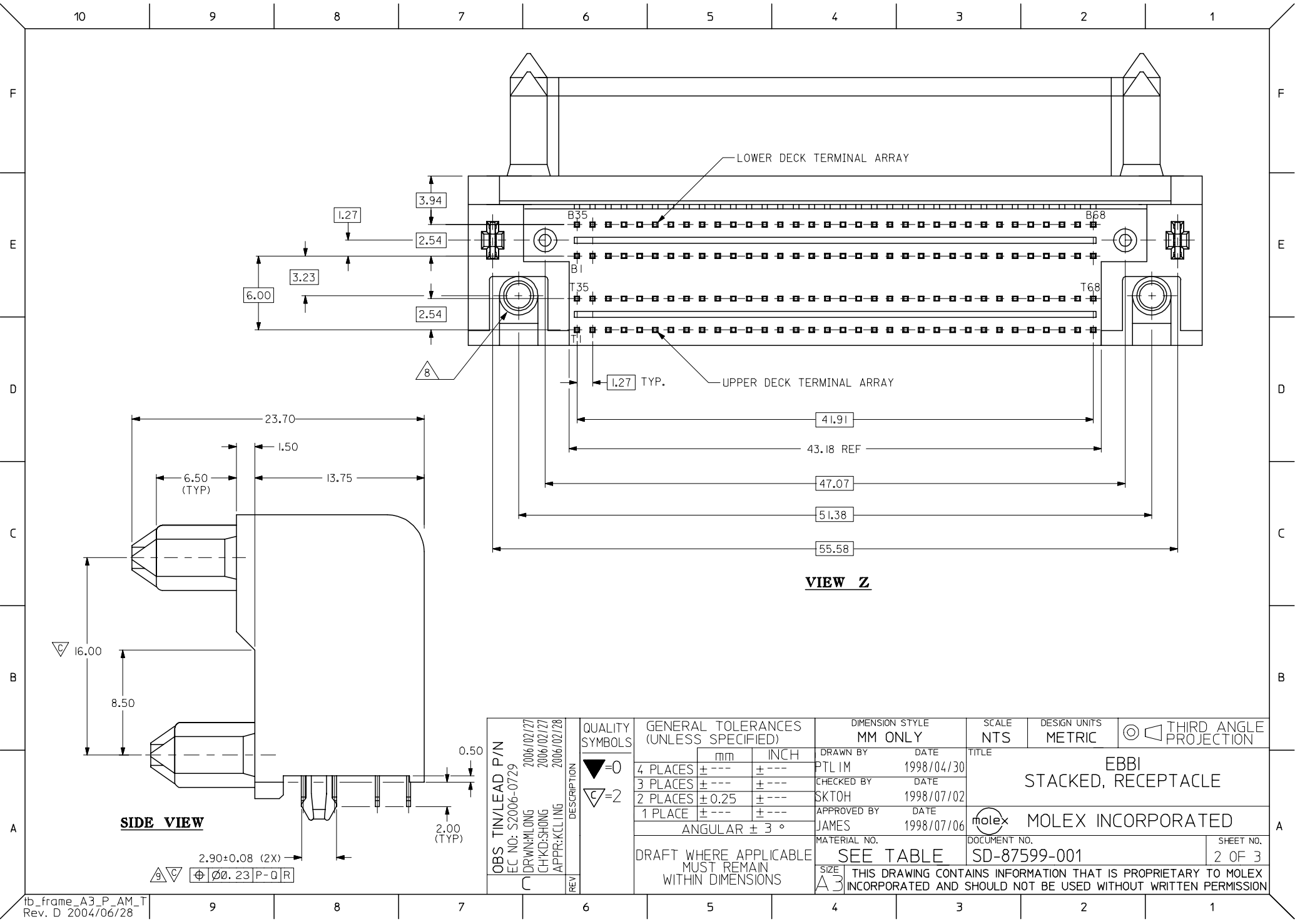
REV	DESCRIPTION	DATE	BY	APPR
1	OBS TIN/LEAD P/N	2006/02/27	DRWN:MLG	CHKD:SHG
2	EC NO: S2006-0729	2006/02/27	CHKD:SHG	APPR:KCLING
3	2006/02/28			

QUALITY SYMBOLS
▽=0
▽=8

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

	DIMENSION STYLE	
	MM ONLY	
	DRAWN BY	DATE
	PTL IM	1998/04/30
	CHECKED BY	DATE
	SKTOH	1998/07/03
	APPROVED BY	DATE
	JAMES	1998/07/03
	MATERIAL NO.	
E	SEE TABLE	
	SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
TITLE		
EBBI STACKED, RECEPTACLE		
 MOLEX INCORPORATED		
DOCUMENT NO. SD-87599-001		SHEET NO. 1 OF 3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



OBS TIN/LEAD P/N EC NO: S2006-0729 DRWN:MLONG CHKD:SHONG APPR:KCLING	2006/02/27
	2006/02/27
	2006/02/28
	2006/02/28

QUALITY SYMBOLS
▽=0
▽=2

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE MM ONLY	
DRAWN BY	DATE
PTL IM	1998/04/30
CHECKED BY	DATE
SKTOH	1998/07/02
APPROVED BY	DATE
JAMES	1998/07/06
MATERIAL NO.	
SEE TABLE	
SIZE	A3

SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
TITLE EBBI STACKED, RECEPTACLE			
 MOLEX INCORPORATED			
DOCUMENT NO. SD-87599-001			SHEET NO. 2 OF 3
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10 9 8 7 6 5 4 3 2 1

F F

E E

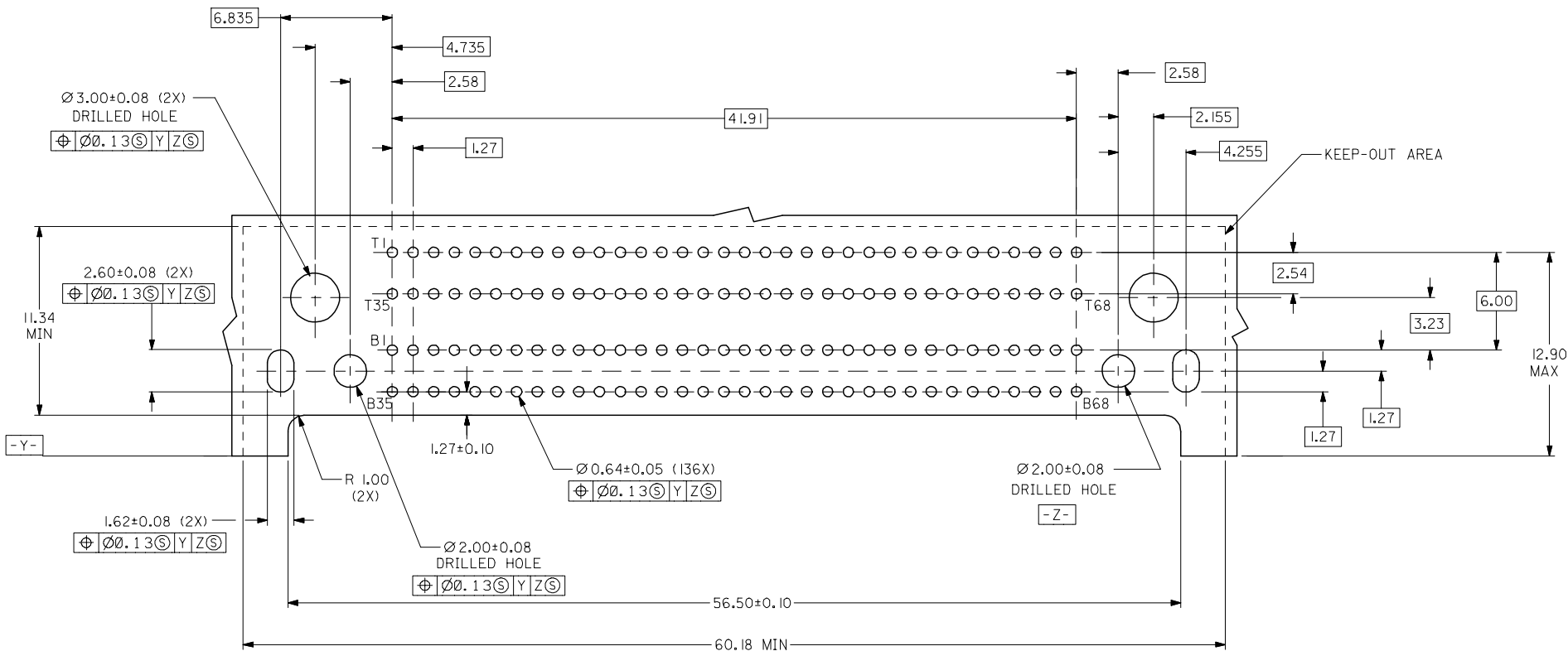
D D

C C

B B

A A

RECOMMENDED PCB LAYOUT



OBS TIN/LEAD P/N EC NO: S2006-0729 DRWN:MLONG CHKD:SHONG APPR:KCLING	2006/02/27
	2006/02/27
	2006/02/28
	2006/02/28

QUALITY SYMBOLS
▽=0
▽=0
REV
C

GENERAL TOLERANCES (UNLESS SPECIFIED)	
4 PLACES	± ---
3 PLACES	± ---
2 PLACES	± 0.25
1 PLACE	± ---
ANGULAR ± 3 °	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE MM ONLY	
DRAWN BY	DATE
PTL IM	1998/04/30
CHECKED BY	DATE
SKTOH	1998/07/02
APPROVED BY	DATE
JAMES	1998/07/06
MATERIAL NO.	
SEE TABLE	
SIZE	
A3	

SCALE NTS	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
TITLE EBBI STACKED, RECEPTACLE			
 MOLEX INCORPORATED			
DOCUMENT NO. SD-87599-001			SHEET NO. 3 OF 3
AINS INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

9 8 7 6 5 4 3 2 1

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Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

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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