

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

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

[RoHS Certificate of Compliance \(PDF\)](#)

**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**

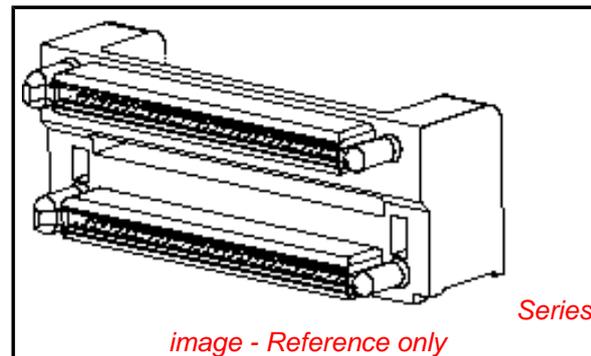


image - Reference only

**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](mailto: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**

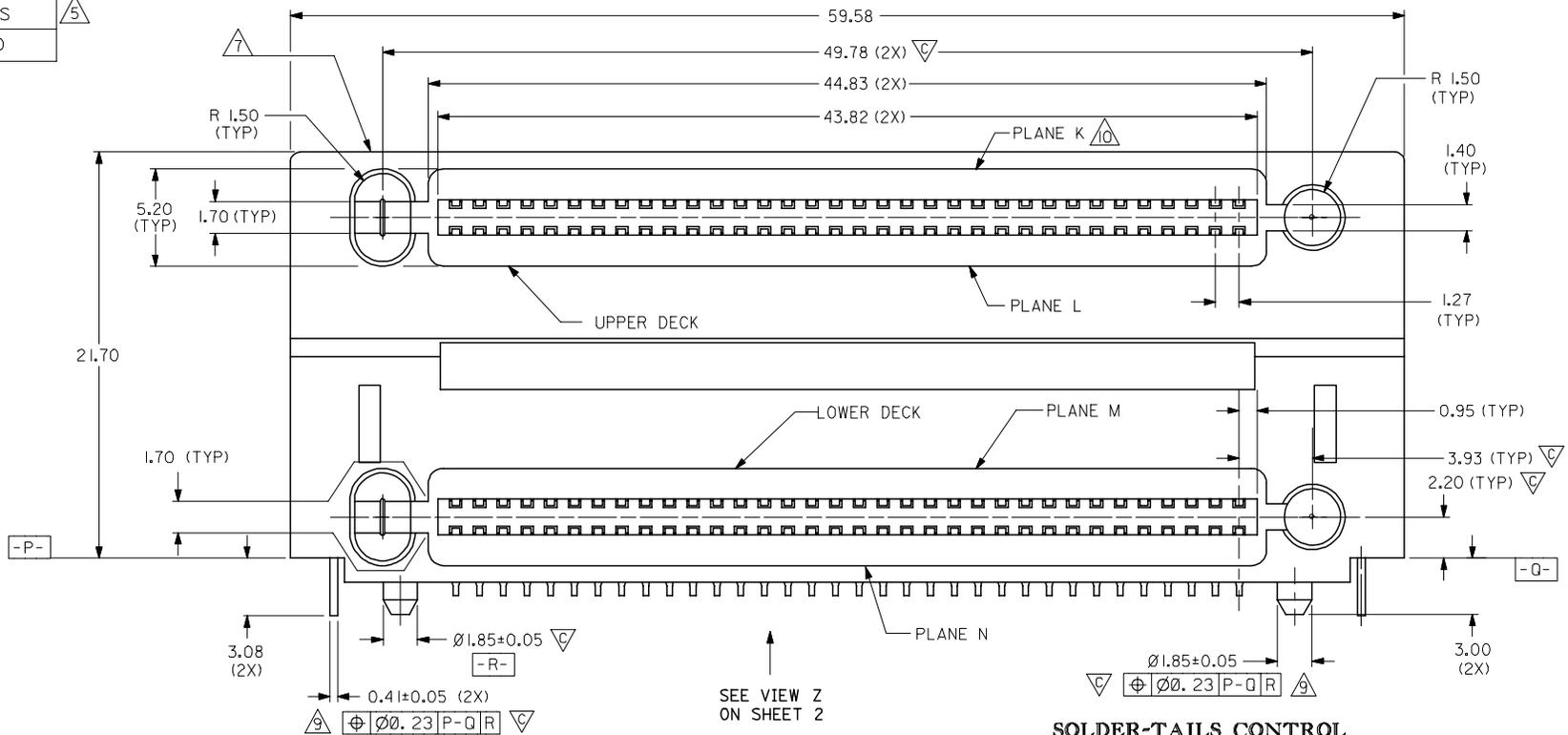
Sales Drawing

SD-87599-001

This document was generated on 03/18/2010

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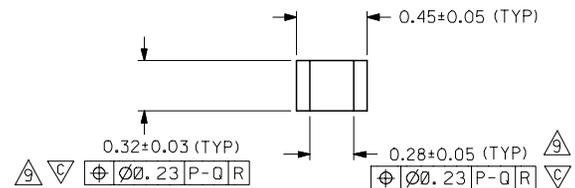
PART NUMBER	CKT SIZE	LUBRICATION
87599-1001	136	YES
87599-1011	136	NO



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 NYETA CT 570H-2
6. TO MATE WITH MOLEX P/N 71661-7068
7. 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**



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

DRAWN BY		DATE
PTL IM		1998/04/30
CHECKED BY		DATE
SKTOH		1998/07/02
APPROVED BY		DATE
JAMES		1998/07/06
MATERIAL NO.		DOCUMENT NO.
SEE TABLE		SD-87599-001
SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
A3		

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
NTS	METRIC	☉ □
EBBI STACKED, RECEPTACLE		
MOLEX INCORPORATED		
DOCUMENT NO.		SHEET NO.
SD-87599-001		1 OF 3

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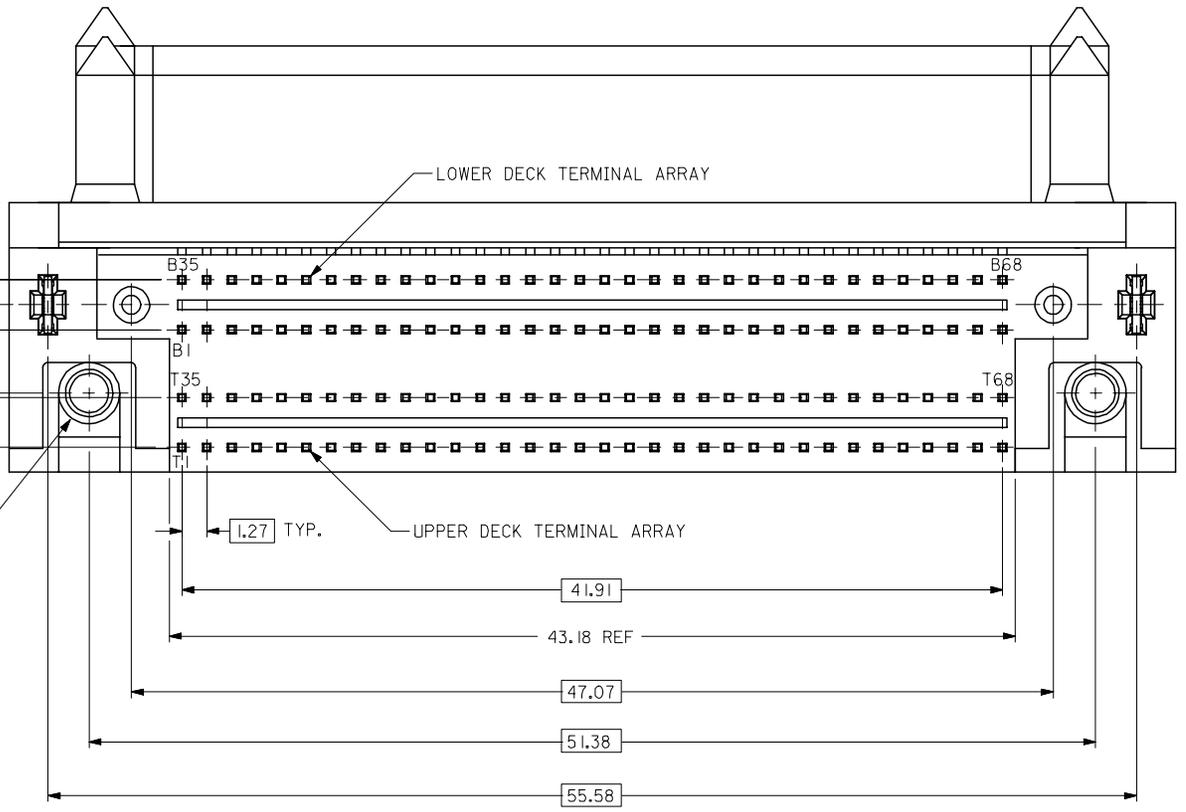
E

D

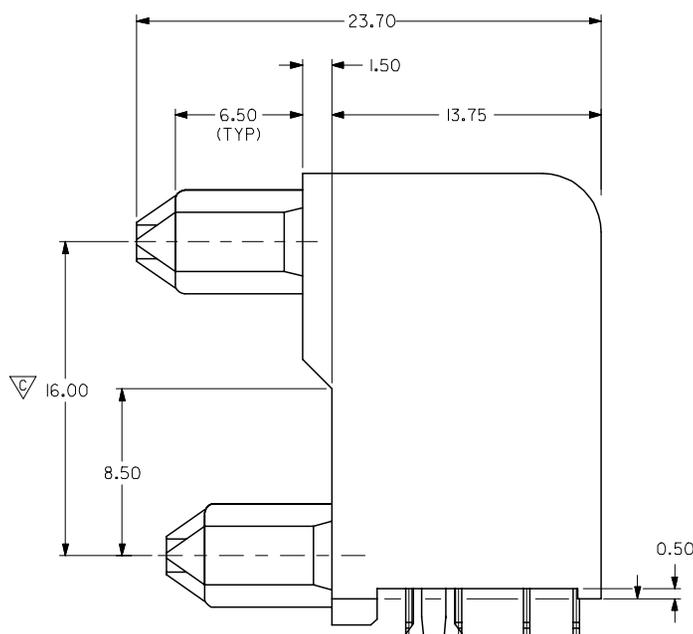
C

B

A



**VIEW Z**



**SIDE VIEW**

2.90±0.08 (2X)  
 Ø.23 P-Q R

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

QUALITY SYMBOLS	DESCRIPTION
▽=0	
▽=2	

GENERAL TOLERANCES (UNLESS SPECIFIED)	
	ANGULAR ± 3 °
4 PLACES	± --- ± ---
3 PLACES	± --- ± ---
2 PLACES	± 0.25 ± ---
1 PLACE	± --- ± ---
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.	DOCUMENT NO.
SEE TABLE	SD-87599-001

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
NTS	METRIC	
TITLE		
EBBI STACKED, RECEPTACLE		
MOLEX INCORPORATED		
SHEET NO.	2 OF 3	

9 8 7 6 5 4 3 2 1

