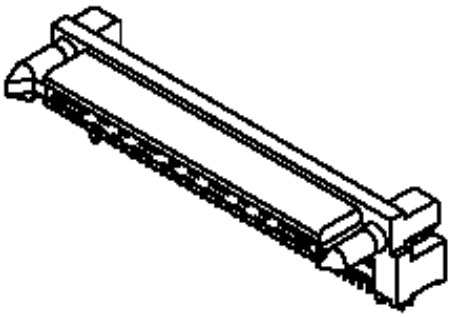
This document was generated on 03/18/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0875378812

Status: Active

Description: 1.27mm (.050") Pitch EBBI™ 50D Receptacle, Through Hole, Right Angle, Blind Mate, with Beveled Metal Pin and Plastic Peg, 0.76µm (30µ") Gold (Au) Selective Plating, 68 Circuits, 2.00mm (.079") PC Tail Length, Low Profile, Leadfree



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	PCB Receptacles
Series	87537
Application	Board-to-Board
Comments	<LI>No Lubricant at the Contact|<LI>Z-Height: 2.54mm (.100)
Product Name	EBBI™

Physical

Circuits (Loaded)	68
Color - Resin	Black
Durability (mating cycles max)	2,000
Glow-Wire Compliant	No
Guide to Mating Part	Yes
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	2
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 Mating Part	Yes
Polarized to PCB	Yes
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

Electrical

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

Solder Process Data

Duration at Max. Process Temperature (seconds)	5

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
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
87537Series

Mates With
71661 EBBI™ Right Angle Blind Mate Plug, EBBI™ Vertical Blind Mate Plug

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

Material Info

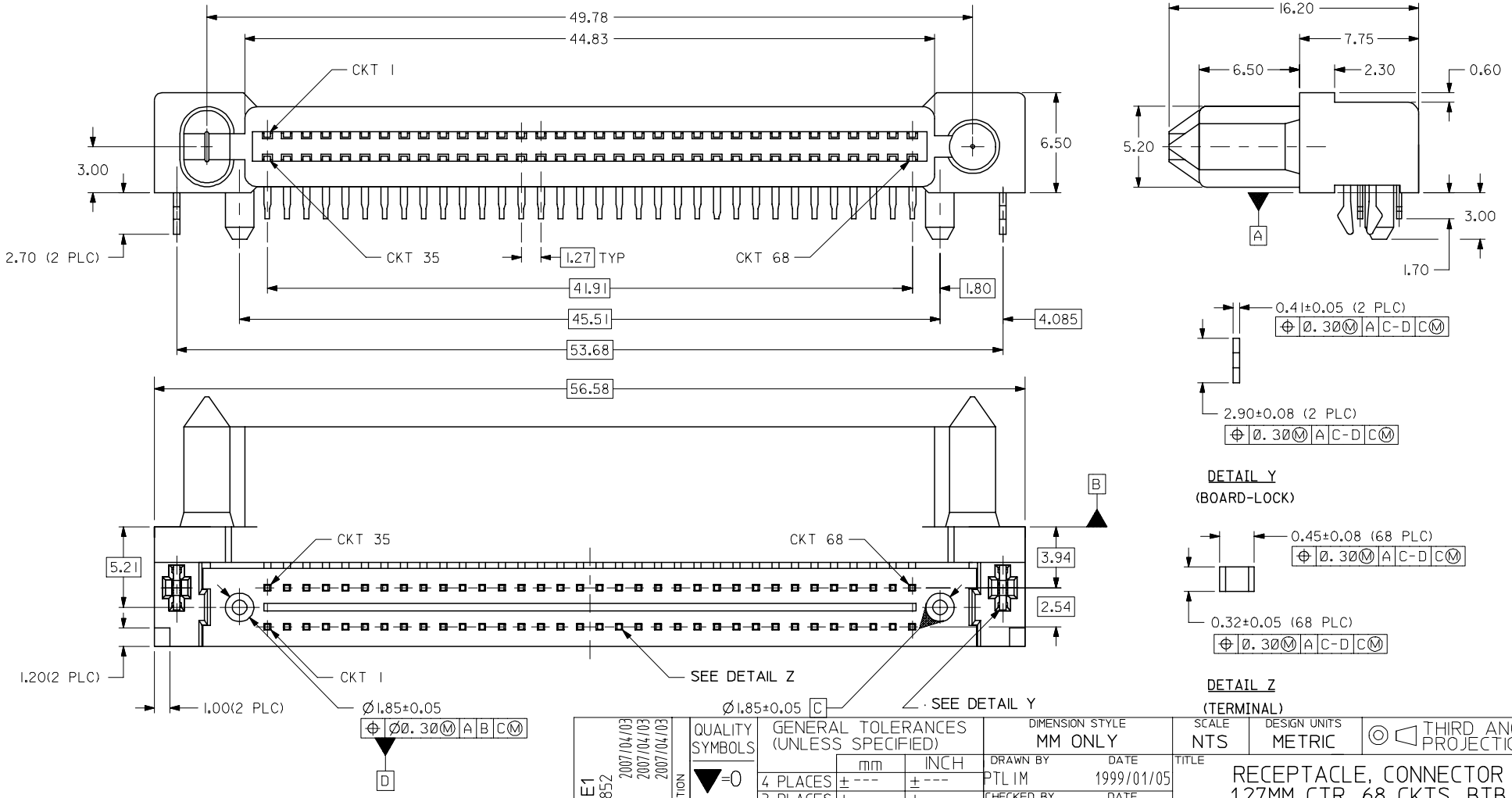
Reference - Drawing Numbers

Sales Drawing	SD-87537-6812

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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

PART STATUS	PART NO. (PACKED IN CARTON)	CKT SIZE	CONTACTS LUBRICATION	WITH KAPTON TAPE
TOOLED	87537-8813	68	NIL	NO
TOOLED	87537-8819 △6	68	YES	NO
TOOLED	87537-8822 △6	68	YES	YES



UPDATE NOTE1
EC NO: S2007-0852 2007/04/03
DRWN:YKOH 2007/04/03
CHKD:CGTAN 2007/04/03
APPR:KCLING 2007/04/03
DESCRIPTION
C1
REV

QUALITY SYMBOLS
▼=0
▽C=0

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
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

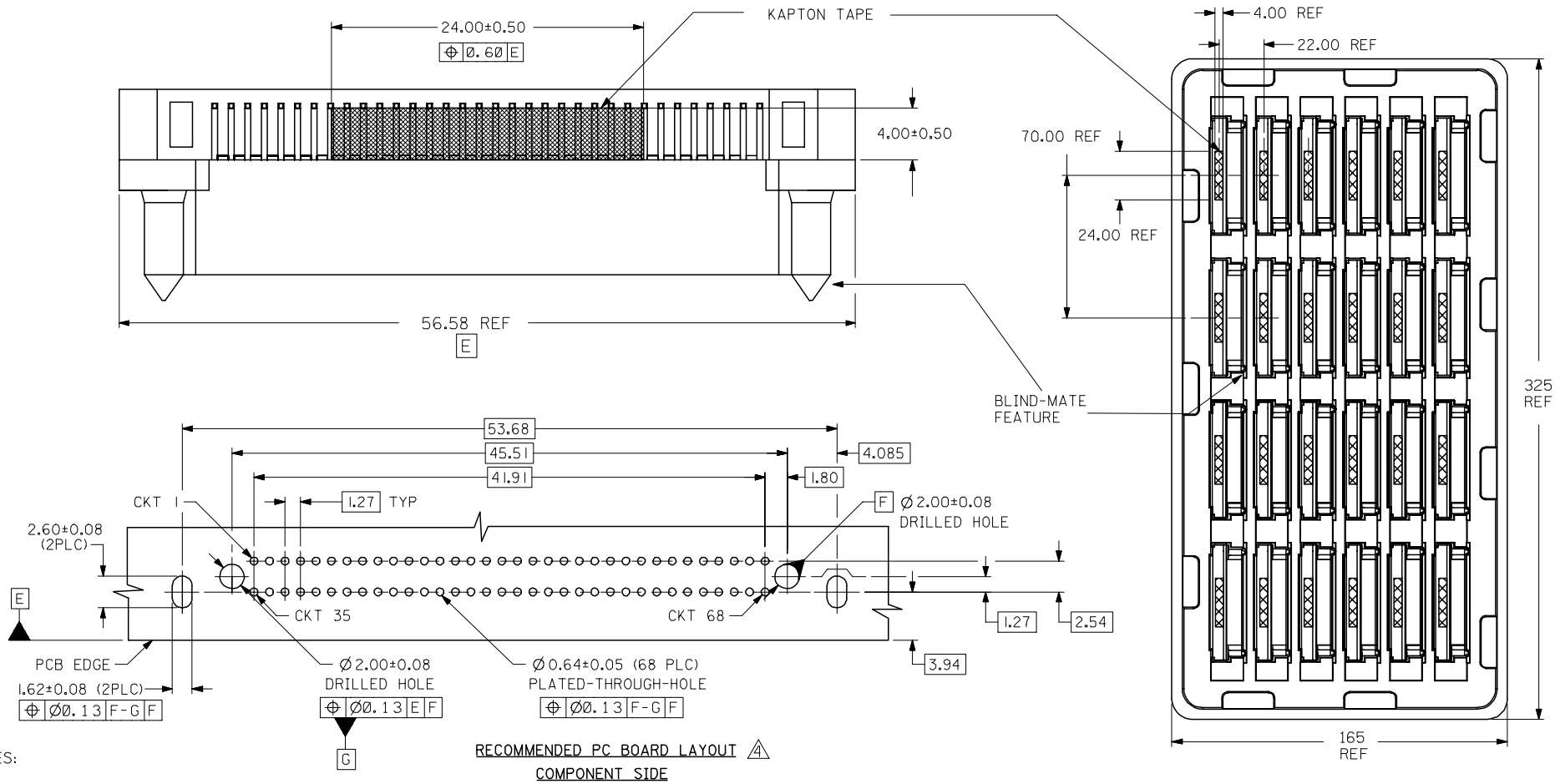
DRAWN BY: PTLIM DATE: 1999/01/05
CHECKED BY: KCLING DATE: 1999/01/14
APPROVED BY: SKTOH DATE: 1999/01/15

TITLE: RECEPTACLE, CONNECTOR 1.27MM CTR, 68 CKTS, BTB BLIND-MATE, 3MM HT., R/A

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87537-002
SHEET NO.: 1 OF 2
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



RECOMMENDED PC BOARD LAYOUT 4
COMPONENT SIDE

PART ORIENTATION IN TRAY
FOR PART NUMBER 87537-6822 ONLY
QUANTITY PER TRAY: 24 PIECES

NOTES:

1 MATERIALS:
HOUSING - LCP, GLASS FILLED, UL 94V-0, COLOR BLACK
TERMINAL - COPPER ALLOY
2 PLATING:
0.76µM MIN. GOLD IN SELECTIVE CONTACT AREA AND
2.54µM MIN. TIN IN SOLDERTAIL AREA,
BOTH OVER 1.27µM MIN. NICKEL
3 PRODUCT SPECIFICATION: PS-87537-0001
4 RECOMMENDED P.C.BOARD THICKNESS IS 1.20±0.05MM
5 CIRCUIT #58 TO BE RECESSED 0.50MM BEHIND
ALL OTHER CONTACTS
6 PART IS LUBRICATED AT TERMINAL CONTACTS TO
MINIMISE UNMATE FORCE

REV	DESCRIPTION		
C1	UPDATE NOTE1 EC NO: S2007-0852	DRWN:YKOH	2007/04/03
		CH'KD:CGTAN	2007/04/03
		APPR:KCLING	2007/04/03

QUALITY SYMBOLS
▼=0
Ⓒ=0

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
SCALE	NTS
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	PTLIM
DATE	1999/01/05
CHECKED BY	KCLING
DATE	1999/01/14
APPROVED BY	SKTOH
DATE	1999/01/15
TITLE	RECEPTACLE, CONNECTOR 1.27MM CTR, 68 CKTS, BTB BLIND-MATE, 3MM HT., R/A
	MOLEX INCORPORATED
MATERIAL NO.	SEE TABLE
DOCUMENT NO.	SD-87537-002
SHEET NO.	2 OF 2
SIZE	A3

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