

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

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)

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

General

Product Family	PCB Receptacles
Series	87537
Application	Board-to-Board
Comments	No Lubricant at the ContactZ-Height: 2.54mm (.100)
Product Name	EBBI™

Physical

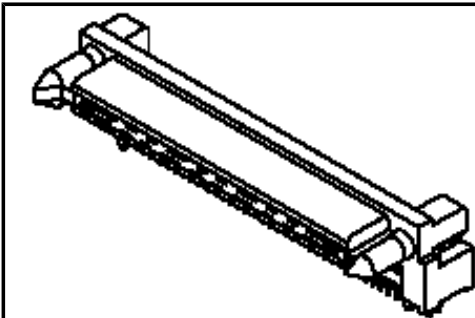
Circuits (Loaded)	68
Color - Resin	Black
Durability (mating cycles max)	2,000
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Lock to Mating Part	None
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number 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
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Series

image - Reference only

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

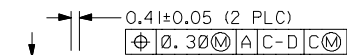
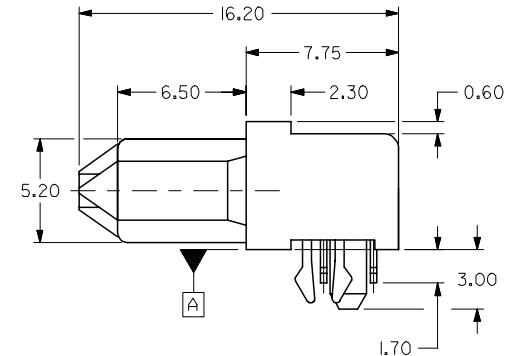
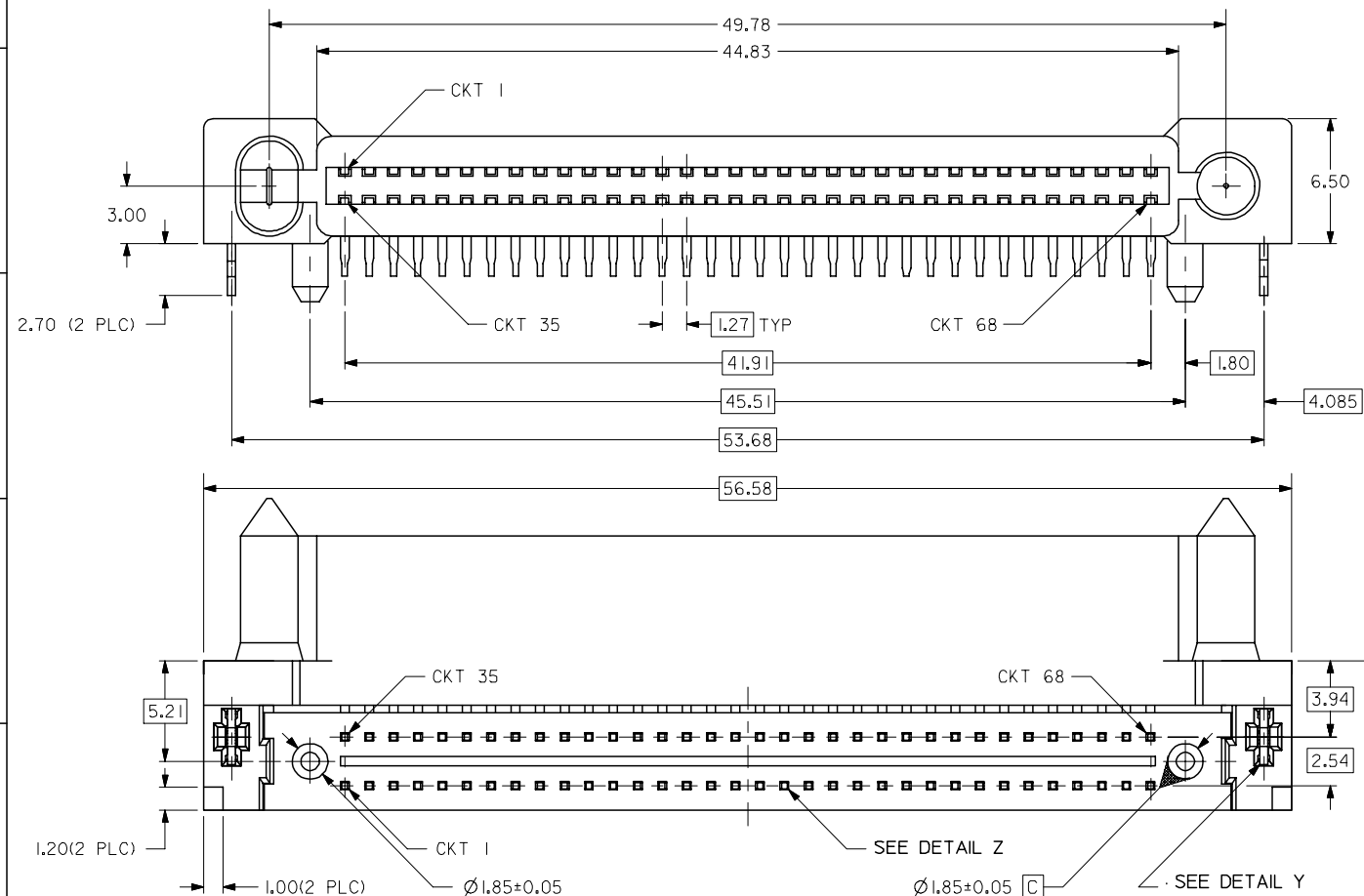
Reference - Drawing Numbers

Sales Drawing	SD-87537-6812
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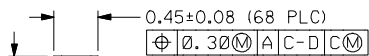
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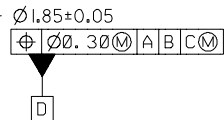
PART STATUS	PART NO. (PACKED IN CARTON)	CKT SIZE	CONTACTS LUBRICATION	WITH KAPTON TAPE
TOOLED	87537-8813	68	NIL	NO
TOOLED	87537-8819	68	YES	NO
TOOLED	87537-8822	68	YES	YES



DETAIL Y
(BOARD-LOCK)



DETAIL Z
(TERMINAL)



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

QUALITY SYMBOLS
$\nabla = 0$
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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	1999/01/05
CHECKED BY	DATE
KCLING	1999/01/14
APPROVED BY	DATE
SKTOH	1999/01/15
MATERIAL NO.	
SEE TABLE	
SIZE	A3

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
NTS	METRIC		
TITLE		RECEPTACLE, CONNECTOR 1.27MM CTR, 68 CKTS, BTB BLIND-MATE, 3MM HT., R/A	
DOCUMENT NO.		SD-87537-002	
SHEET NO.		1 OF 2	

