

FEATURES AND SPECIFICATIONS

Features and Benefits

- Parallel, perpendicular and in-line interconnections
- First mate/last break terminal
- Polarized guide posts on ends provide 2.00mm (.079") radial lead-in for blind mating
- Fork boardlock provides excellent mechanical PCB retention before and after processing
- Threaded insert ensures additional mechanical retention to PCB
- Card slot accommodates standard 1.57mm (.062") PCB

Reference Information

Product Specification: PS-87599-009

Packaging: Tray

UL File No.: E29179

CSA File No.: LR19980

Mates With: [71661-25XX](#) and [71661-7XXX](#)

Designed In: Millimeters

Electrical

Voltage: 30V AC

Current: 1.0A

Contact Resistance: 50mΩ max.

Dielectric Withstanding Voltage: 500V AC

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 4.4N (.99 lb) min.

Mating Force: 60N (13.49 lb) max.

Unmating Force: 10N (2.25 lb) min.

Durability: 2000 cycles

Physical

Housing: High-temperature thermoplastic, UL 94V-0

Contact: Copper Alloy

Plating: Contact Area—0.76μm (30μ") Gold

Solder Tail Area—100μm (2.54μ") Tin

Underplating—Nickel

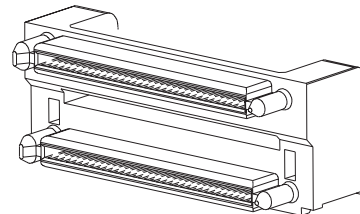
Operating Temperature: -25 to +85°C



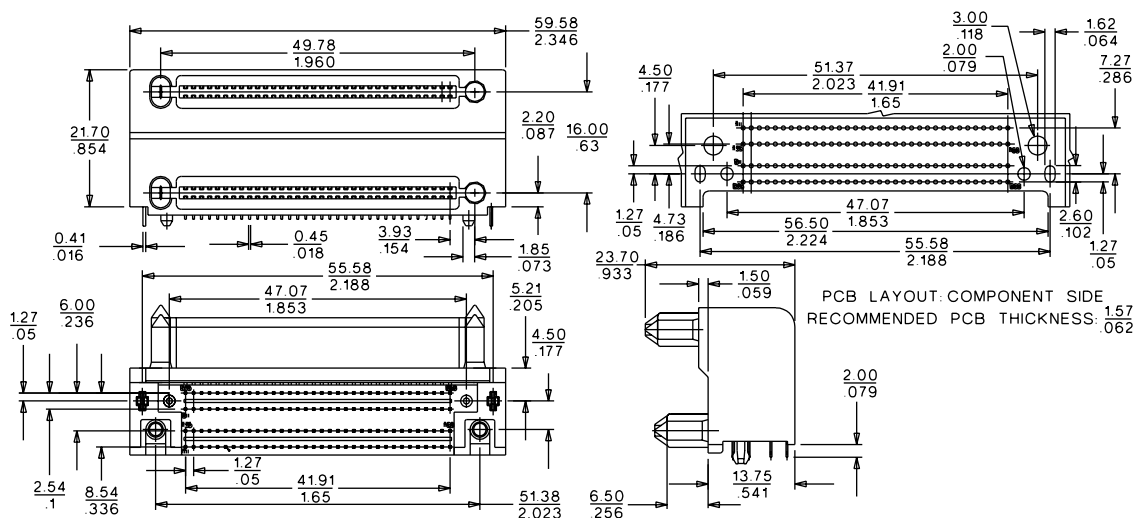
1.27mm (.050") Pitch EBBI™ 50D Board-to-Board Receptacle

87599

Right Angle, Dual Stack Though Hole, Four Row, Blind-Mate



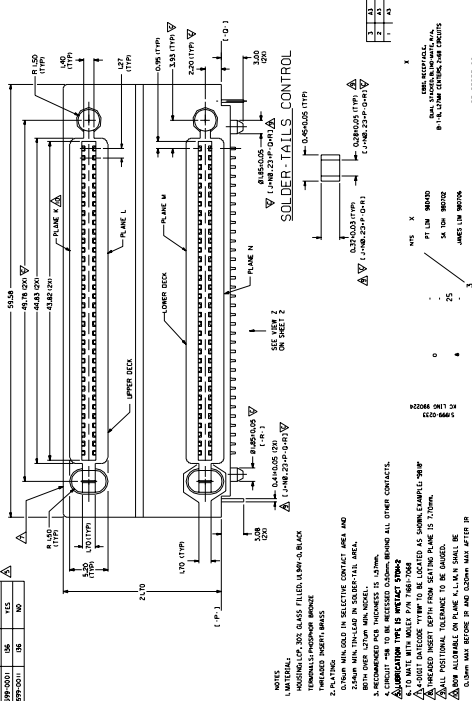
CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.
68	87599-0001

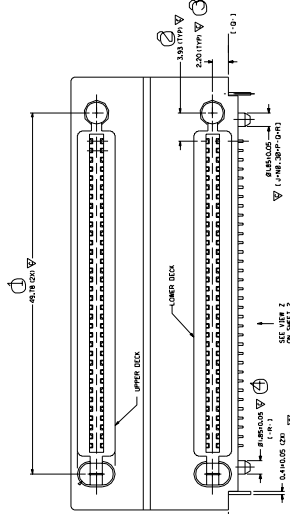
PART NUMBER: 158713173
 EXT. SIZE: 158713173
 DATE: 08/11/03



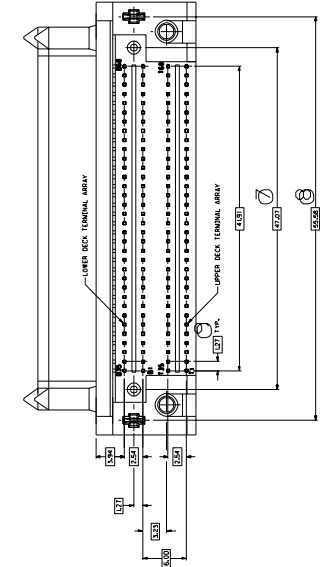
- NOTE:
 MATERIAL:
 HORIZONTAL: 302 CLASS TITANIUM-SILVER
 VERTICAL: 304 CLASS TITANIUM-SILVER
 DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 DIMENSIONS IN PARENTHESES ARE IN INCHES.
 DIMENSIONS IN BRACKETS ARE TOLERANCES.
 DIMENSIONS IN SQUARE BRACKETS ARE HOLE LOCATIONS.
 DIMENSIONS IN TRIANGLE BRACKETS ARE HOLE DIAMETERS.
 DIMENSIONS IN CIRCLE BRACKETS ARE HOLE RADIUS.
 DIMENSIONS IN DIAMETER BRACKETS ARE HOLE DIAMETERS.
 DIMENSIONS IN SQUARE BRACKETS ARE HOLE LOCATIONS.
 DIMENSIONS IN TRIANGLE BRACKETS ARE HOLE DIAMETERS.
 DIMENSIONS IN CIRCLE BRACKETS ARE HOLE RADIUS.
 DIMENSIONS IN DIAMETER BRACKETS ARE HOLE DIAMETERS.

1. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 5. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 6. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 7. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 8. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 9. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 10. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

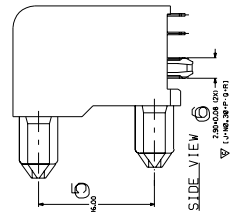
1. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 5. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 6. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 7. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 8. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 9. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 10. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.



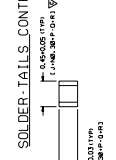
SIDE VIEW



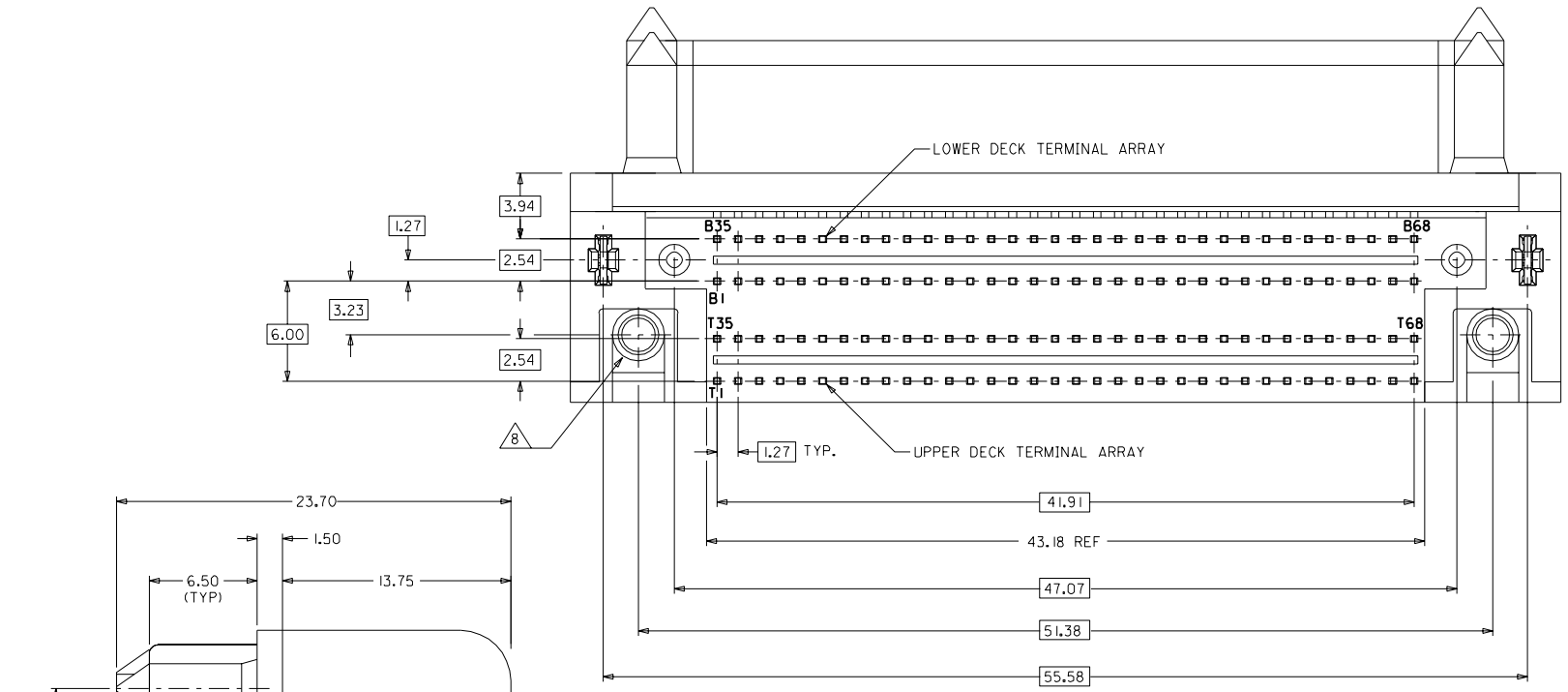
VIEW Z



SIDE VIEW



SOLDER-TAILS_CONT.



VIEW Z

SIDE VIEW

2.90±0.08 (2X)
 [J•NØ.23•P•Q•R]

S1999-0233
 KC LING 990224

A3

0	—	NTS	X
2	—	PT LIM	980430
	—	SK TOH	980702
	—	JAMES LIM	980706
	—	S87599AA.S02	

87599-0001

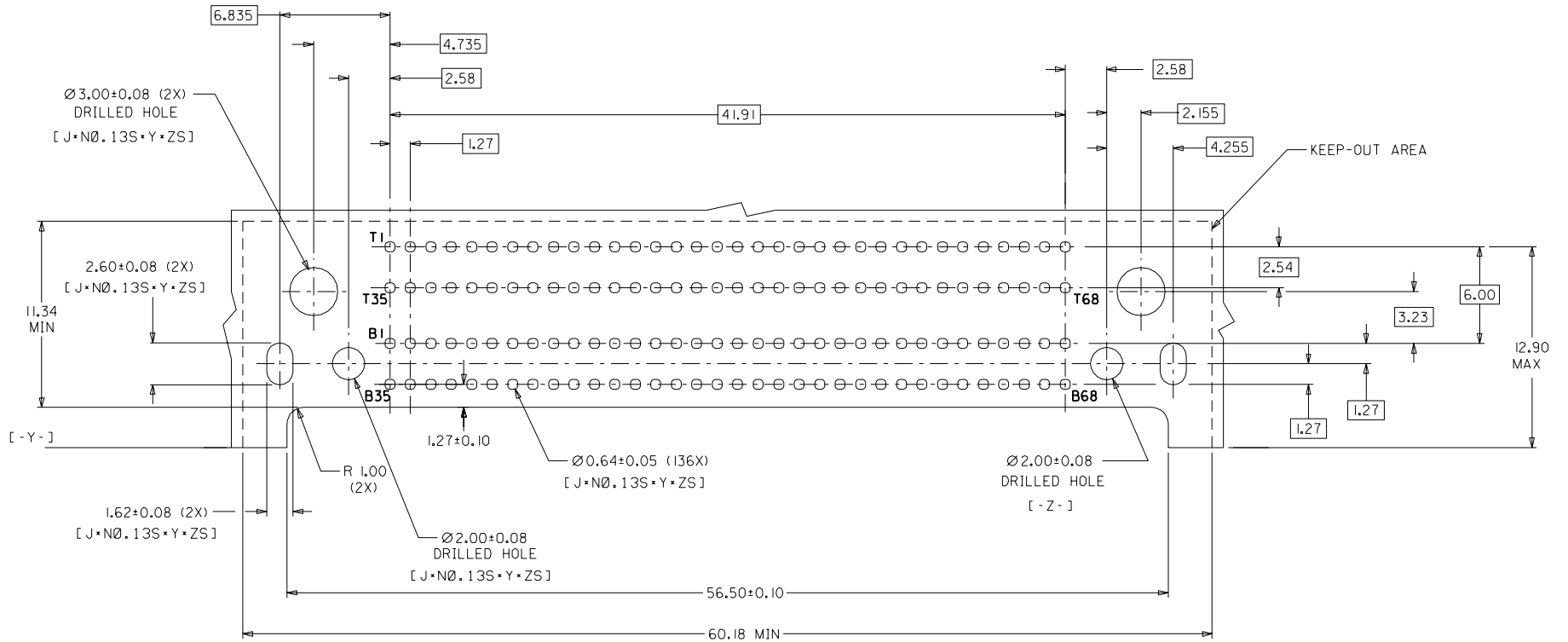
SD-87599-001

2 OF 3

X
 EBBI, RECEPTACLE,
 DUAL STACKED, BLIND-MATE, R/A,
 B-T-B, 1.27MM CENTERS, 2x68 CIRCUITS



RECOMMENDED PCB LAYOUT



S 1999-0233
KC LINC 990224

0
0

25

3

NTS X
PT LIM 980430
SK TOH 980702
JAMES LIM 980706
S87599AA.S03

87599-0001

SD-87599-001

X
EBBI, RECEPTACLE,
DUAL STACKED, BLIND-MATE, R/A,
B-T-B, 1.27MM CENTERS, 2x68 CIRCUITS