NOTES: UNLESS OTHERWISE SPECIFIED

1. CONNECTOR NAMES AND PART NUMBERS:

   NAME: PIN CONNECTOR HOUSING, M-QUAD BLIND MATE
   ACCOMMODATES SIZE 9.1 MM DIAMETER PINS & 2/0 BARRELS
   PART NUMBER: 6316-07080-01100

   NAME: SOCKET CONNECTOR HOUSING, M-QUAD BLIND MATE
   ACCOMMODATES SIZE 9.1 MM DIAMETER PINS & 2/0 BARRELS
   PART NUMBER: 6315-07078-01100

   SEE SHEET 2 FOR CORRESPONDING CONTACT PART NUMBERS

2. MATERIALS:

   INSULATORS: THERMOPLASTIC, UL 94 V-0
   SOCKET CONTACTS: COPPER ALLOY
   PIN CONTACTS: COPPER ALLOY
   RETENTION SPRINGS: COPPER ALLOY

3. FINISHES:

   SOCKET CONTACTS: SILVER PLATING OVER NICKEL UNDER PLATING
   SOCKET BODIES: SILVER PLATING OVER NICKEL UNDER PLATING
   PIN CONTACTS: SILVER PLATING OVER NICKEL UNDER PLATING

4. REFERENCE DIMENSIONS IN PARENTHESES (XXX) ARE WITHOUT TOLERANCE AND USED FOR INFORMATION ONLY. SOME VIEWS CONTAIN HARDWARE OR SUBSTRATES CHOSEN AS AIDING PRODUCT DESCRIPTION.

5. OPERATIONAL CONDITIONS

   * CONNECTOR GUIDEPOST GATHERING OF 2.5 MM [.10 INCH].
   * RELIABLE MATE AT 2 MM [.08 INCH] OFFSET (SEE SHEET 5).
   * PIN OR SOCKET CONNECTOR FLOAT OF 1.3 MM [.05 INCH] OFFSET FROM CENTER POSITION, WHEN MOUNTED USING THE SHOULDER SCREW SHOWN ON SHEET 5.
   * TYPICAL CONNECTOR MATING FORCES OF 26 N [6 LBF]
   * WHEN POPULATED WITH CONTACTS IN ALL POSITIONS.

THIS DRAWING SUPERSEDES CUD DRAWING # 6313-07071-00100
ILLUSTRATED SOCKET CONNECTOR FULLY POPULATED WITH 9.1 MM SOCKET CONTACTS

PN: 9104-07215-02104
9.1 MM PIN DIAMETER
M6 THREADED TERMINATION
2/0 AWG CRIMP TERMINATION

ILLUSTRATED PIN CONNECTOR FULLY POPULATED WITH 9.1 MM PIN CONTACTS

PN: 9303-07081-01104
POWERBUD 9.1 mm PIN DIAMETER
M6 THREADED TERMINATION

PN: 9303-07081-01104
POWERBUD 9.1 mm PIN DIAMETER
M6 THREADED TERMINATION

- PIN CONTACTS -

- SOCKET CONTACTS -

- MOUNTING SHOULDER SCREW -

- CONTACT REMOVAL TOOL -

PN: 9119-01680-02103
M5 THREAD

PN: 7208-00227-02300
SIZE 1/0 CONTACT BARREL

PN: 9104-07215-02104
9.1 MM PIN DIAMETER
M6 THREADED TERMINATION
2/0 AWG CRIMP TERMINATION

PN: 9104-06933-02104
9.1 mm PIN DIAMETER
2/0 AWG CRIMP TERMINATION

PN: 9119-01680-02103
M5 THREAD

PN: 7208-00227-02300
SIZE 1/0 CONTACT BARREL

POWERBUD 9.1 mm PIN DIAMETER
M6 THREADED TERMINATION

SIZE 1/0 CONTACT BARREL

METHODE ELECTRONICS, INC.
POWER SOLUTIONS GROUP
1750 Junction Avenue, San Jose, CA 95112 (408) 453-9500

ALL INFORMATION IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY INFORMATION AND IS NOT TO BE DISTRIBUTED, COPIED, OR SHARED EXCEPT WITH PRIOR WRITTEN APPROVAL OF METHODE ELECTRONICS, INC.  POWER SOLUTIONS GROUP.
- WIRE CRIMP TERMINATION INFORMATION -

CRIMP WIRE TERMINATIONS SHOWN

- M6 THREADED TERMINATION INFORMATION -

BRASS M6 HEX HEAD SCREWS OVER BRASS 6 MM WASHERS SHOWN

BUS CONDUCTOR RECOMMENDED ATTACHMENT HOLE SIZE & LOCATION

**Dimensions:**
- 6.2 [0.24] EXPOSED CONTACT M6 TERMINATION
- 13.9 [0.55] ANTI-ROTATION 13 MM WRENCH FLATS
- 10.4 [0.41] CONTACT C TO ISOLATION BARRIER
- 38.1 x 4.8 MM BUS CONDUCTOR TERMINATION SHOWN

**Notes:**
- M6x1.0 THREAD Φ 13.5 [0.53]
- OPTIONAL SHRINK TUBING INSTALLED OVER CRIMP
- SLIDE CONTACTS WITH CRIMPED ON WIRE INTO CONNECTOR CAVITY UNTIL LOCKED IN PLACE
- CONNECTOR POPULATED WITH 2/0 AWG CRIMP CONTACTS
- 2x Φ6.4 [0.252] THRU FOR M5 CLINCH FASTENER OR M5 THREAD
- 2x Φ2.0 [0.08]
- 3x R5.2 [0.20]
- 63.00 [2.480]
- 48.80 [1.921]
- 15.20 [0.598]
- 16.80 [0.661]
- 4.8 [0.18] SIDE-TO-SIDE FREEDOM OF FLOAT

**Tolerances:**
- UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:
  - DECIMALS: X.X, X.XX, X.XXX
  - ANGLES: ± 0.2, ± 0.08, ± 0.013

**Surface Finish:**
- N/A

**Drawing Information:**
- DRAWING NUMBER: C6313-07744-00100
- REV: A
- SHEET 4 OF 6

**Notes:**
- USER DRAWING, M-QUAD
- FOUR SIZE 9.1 MM CONTACTS 2/0 AWG WIRE CRIMP & M6 THREADS
- PANEL MOUNTED CONNECTOR -

- BUS MOUNTED PIN CONNECTOR -

- BUS MOUNTED SOCKET CONNECTOR -

FULLY MATED CONDITION

2 MM OFFSET MATE CONDITION

TOLERANCES:
- UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS
- TOLERANCES ARE:
  - XX ± 0.2
  - XXX ± 0.013

SURFACE FINISH: N/A

METHODE ELECTRONICS, INC.
POWER SOLUTIONS GROUP
1750 Junction Avenue, San Jose, CA 95112  (408) 453-9500

ALL INFORMATION IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY INFORMATION AND IS NOT TO BE DISTRIBUTED, COPIED, OR SHARED EXCEPT WITH PRIOR WRITTEN APPROVAL OF METHODE ELECTRONICS, INC. POWER SOLUTIONS GROUP.
- 2/0 AWG WIRE & TWO-HOLE FUSION LUG TERMINATION -

NOTE:
DIMENSIONS REFLECT STANDARD TWO-HOLE STANDARD FUSION LUGS

WIRE LENGTH TO BE SPECIFIED

20.3 [0.80]

10.2 [0.40]

44.5 [1.75]
FUSION LUG

Φ 10.3 [0.41]
M10 CLEARANCE SHOWN

- 2/0 AWG WIRE & TWO-HOLE FUSION LUG TERMINATION -

NOTE:
DIMENSIONS REFLECT STANDARD TWO-HOLE STANDARD FUSION LUGS

D C
B
A

E F

12345678

8 7 6 5 4 3 2 1

E F

A

SURFACE FINISH: N/A

TOLERANCES ARE:

THIRD ANGLE PROJECTION

PROPRIETARY AND CONFIDENTIAL NOTICE
ALL INFORMATION IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY INFORMATION AND IS NOT TO BE DISTRIBUTED, COPIED, OR SHARED EXCEPT WITH PRIOR WRITTEN APPROVAL OF METHODE ELECTRONICS, INC. POWER SOLUTIONS GROUP.

X.X X.X ± 0.2 ± 0.0
X.XX ± 0.06
X.XXX ± 0.013

SCALE: 1:1

REV: C6313-07744-00100

FILENAMEN:

DRAWING NUMBER:

DATE: 02/02/2015

CHECKED: R. Larsen

ENG/REV: R. Larsen

02/02/2015

NAME: R. Larsen

TITLE: USER DRAWING, M-QUAD

FOUR SIZE 9.1 MM CONTACTS
2/0 AWG WIRE CRIMP & M6 THREADS

METHODE ELECTRONICS, INC.
POWER SOLUTIONS GROUP

1750 Junction Avenue, San Jose, CA 95112 (408) 453-9500

ALL INFORMATION IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY INFORMATION AND IS NOT TO BE DISTRIBUTED, COPIED, OR SHARED EXCEPT WITH PRIOR WRITTEN APPROVAL OF METHODE ELECTRONICS, INC. POWER SOLUTIONS GROUP.