NOTES: UNLESS OTHERWISE SPECIFIED

1. CONNECTOR NAMES AND PART NUMBERS:

   ● CONNECTOR PART NUMBER: 5301-07278-00104 - SILVER PLATED CONTACT
   ● CONNECTOR DESCRIPTION: MINI-MCC BUS CONNECTOR
      SIZE 3.0 MM THICK MATING BUS, 6 AWG CRIMP BARREL

   ● CONNECTOR PART NUMBER: 5301-07278-00107 - NICKEL PLATED CONTACT
   ● CONNECTOR DESCRIPTION: MINI-MCC BUS CONNECTOR
      SIZE 3.0 MM THICK MATING BUS, 6 AWG CRIMP BARREL

   ● CONNECTOR MODULE PART NUMBER: 5313-07450-00104 - SILVER PLATED CONTACTS
   ● CONNECTOR MODULE PART NUMBER: 5313-07450-00107 - NICKEL PLATED CONTACTS
      MODULE INCLUDES:
      (2) MINI-MCC BUS CONNECTORS
      (2) POWERFLEX CABLES 6 AWG 600V / 45° FUSION LUG
      (1) FUSE MOUNTING PLATE
      CHOKE - KING CORE PN: K5B T 31x22.22x19
      OR STEWARD PN: 28B1250-000
      OR TAI-TECH PN: W5 T 31x22.20x19

   ● CONNECTOR MODULE PART NUMBER: 5313-07593-00104 - SILVER PLATED CONTACTS
   ● CONNECTOR MODULE PART NUMBER: 5313-07593-00107 - NICKEL PLATED CONTACTS
      MODULE INCLUDES:
      (2) MINI-MCC BUS CONNECTORS
      (2) POWERFLEX CABLES 6 AWG 600V / 45° FUSION LUG
      (1) FUSE MOUNTING PLATE

2. CONNECTOR MATERIALS:

   ● CONNECTOR INSULATOR: POLYESTER THERMOPLASTIC, UL 94 V-0
   ● MOUNTING PLATE: POLYESTER THERMOPLASTIC, UL 94 V-0
   ● CONTACTS: COPPER ALLOY
   ● CRIMP BARREL SHROUD: COPPER ALLOY

3. FINISHES:

   ● CONTACT INTERFACE: NICKEL PLATE
   ● FUSION LUG: TIN / SILVER DIP

4. REFERENCE DIMENSIONS IN PARENTHESIS (.XXX) ARE WITHOUT TOLERANCE AND USED FOR INFORMATION ONLY.

5. OPERATIONAL CONDITIONS:

   * CONNECTOR HOUSING LEAD-IN GATHERING OF 3 MM OFF CENTERLINE PERPENDICULAR TO MATING BUS.
   * MOUNTING PLATE FLOAT ±3 MM PERPENDICULAR TO MATING BUS AND ±24 MM PARALLEL TO MATING BUS WHEN USING 0.4 MM STANDOFF BARREL AS DESCRIBED ON SHEET 3.
   * INDIVIDUAL CONNECTOR FLOAT CLEARANCE IN MOUNTING PLATE OF 0.3 MM.
   * RELIABLE MATE DEPTH (SEE SHEET 3).
   * ESTIMATED CONNECTOR MATING (SLIDING) FORCES 1.2 KGF [12 N] WHEN BUS HAS A SMOOTH SURFACE FINISH.
(2) MINI-MCC CONNECTORS & MOUNTING PLATE

MINI-MCC BUS CONNECTOR

CRIMP BARREL
6 AWG CABLE

- POSITIVE -
BLACK CABLE JACKET

- NEGATIVE -
RED CABLE JACKET

STANDARD DUAL MINI-MCC 3 MM BUS TERMINATION

UNLESS OTHERWISE SPECIFIED
TOLERANCES

TOLERANCES

X.X

X.XX

X.XXX

0.02

0.003

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

USER DRAWING, CONNECTOR MODULE
DUAL MINI-MCC 3 MM BUS
FUSION LUG TERMINATION

POWER SOLUTIONS GROUP.

FILENAME: C5313-072012-001XX
DRAWING NUMBER: REV C5313-072012-001XX
USER DRAWING, CONNECTOR MODULE
DUAL MINI-MCC 3 MM BUS
FUSION LUG TERMINATION

DATA NAME: TITLE: SCALE: 2:1
ORIG: R. Larsen 03/14/2013
CHECKED: H. Han 03/14/2013
ENGRA: R. Larsen 03/14/2013

THIRD ANGLE PROJECTION

CONTRACT DRAWING

X.X

X.XX

X.XXX

0.02

0.003

TOLERANCES

TOLERANCES

X.X

X.XX

X.XXX

0.02

0.003

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POWER SOLUTIONS GROUP.

FILENAME: C5313-072012-001XX
DRAWING NUMBER: REV C5313-072012-001XX
USER DRAWING, CONNECTOR MODULE
DUAL MINI-MCC 3 MM BUS
FUSION LUG TERMINATION

DATA NAME: TITLE: SCALE: 2:1
ORIG: R. Larsen 03/14/2013
CHECKED: H. Han 03/14/2013
ENGRA: R. Larsen 03/14/2013

THIRD ANGLE PROJECTION

CONTRACT DRAWING

X.X

X.XX

X.XXX

0.02

0.003

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POWER SOLUTIONS GROUP.

FILENAME: C5313-072012-001XX
DRAWING NUMBER: REV C5313-072012-001XX
USER DRAWING, CONNECTOR MODULE
DUAL MINI-MCC 3 MM BUS
FUSION LUG TERMINATION

DATA NAME: TITLE: SCALE: 2:1
ORIG: R. Larsen 03/14/2013
CHECKED: H. Han 03/14/2013
ENGRA: R. Larsen 03/14/2013

THIRD ANGLE PROJECTION

CONTRACT DRAWING

X.X

X.XX

X.XXX

0.02

0.003

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POWER SOLUTIONS GROUP.

FILENAME: C5313-072012-001XX
DRAWING NUMBER: REV C5313-072012-001XX
USER DRAWING, CONNECTOR MODULE
DUAL MINI-MCC 3 MM BUS
FUSION LUG TERMINATION

DATA NAME: TITLE: SCALE: 2:1
ORIG: R. Larsen 03/14/2013
CHECKED: H. Han 03/14/2013
ENGRA: R. Larsen 03/14/2013

THIRD ANGLE PROJECTION

CONTRACT DRAWING

X.X

X.XX

X.XXX

0.02

0.003

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POWER SOLUTIONS GROUP.

FILENAME: C5313-072012-001XX
DRAWING NUMBER: REV C5313-072012-001XX
USER DRAWING, CONNECTOR MODULE
DUAL MINI-MCC 3 MM BUS
FUSION LUG TERMINATION

DATA NAME: TITLE: SCALE: 2:1
ORIG: R. Larsen 03/14/2013
CHECKED: H. Han 03/14/2013
ENGRA: R. Larsen 03/14/2013

THIRD ANGLE PROJECTION

CONTRACT DRAWING

X.X

X.XX

X.XXX

0.02

0.003

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POWER SOLUTIONS GROUP.
**MATING BUS THICKNESS**

**RELIABLE MATING DEPTH**

**MINIMUM BUS DEPTH**

**FOR RELIABLE MATE**

**FROM FULL MATE**

**MAXIMUM OFFSET**

- 8.0

- 14.5

- 3.00±0.10

**NOMINAL BUS THICKNESS**

- 0.30 CLEARANCE 2-SIDES HOUSING TO PLATE

- 0.2-0.4 HOUSING CLEARANCE TO SPRING PIN

- 0.30 CLEARANCE HOUSING TO PLATE

**SYSTEM PANEL & HARDWARE**

- 6.30±0.20 RECOMMENDED PROTRUDING STANDOFF HEIGHT

- 1/8" ID-7/16" OD x 0.02" THK FLAT WASHER SHOWN

- SELF-CLINCHING M3 x 0.5 x 8-8 LONG

- OBTAIN SEPARATELY

- M3 ID - Ø10.4 OD MINIMUM

- OBTAIN SEPARATELY

- CAPTURE FLAT WASHER SHOWN

- 6.50

- 15.26

- 19.26

- 20.00

- 2.60

- 2.60

- 28.00 (44.50)

- 5.00

- 9.26

- 9.30

- 2.00

- 6.50

- 6.50

- 41.00

- 39.00

- 27.00

**USER DRAWING, CONNECTOR MODULE DUAL MINI-MCC 3 MM BUS FUSION LUG TERMINATION**

**TOLERANCES**

- UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN MILLIMETERS

- TOLERANCES ARE:

  - DECIMALS
    - XX ± 0.2
    - XXX ± 0.06
    - X.XXX ± 0.013

  - ANGLES ± 2.0

**SURFACE FINISH: N/A**

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**METHODE ELECTRONICS, INC.**

**POWER SOLUTIONS GROUP**

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

**SCALE: 2:1**

**DRAWING NUMBER:**

**C5313-07452-001XX**

**REV:**

**A**

**DRAWING SHEET:**

**3 OF 4**

**DATE:**

**03/14/2013**

**CHECKED:**

**H. Han**

**ENG:**

**R. Larsen**

**ORIG:**

**R. Larsen**
POWERFLEX 6 AWG CABLES & FUSION LUG
PN: 9300-07347-01100 BLACK JACKET
PN: 9300-07348-01100 RED JACKET

WIRE HOOK UP SHOWN FULLY MATED

- POSITIVE -
- RED CABLE JACKET

- NEGATIVE -
- BLACK CABLE JACKET

SHRINK TUBE

CABLE LENGTH

32.5
30.0
25±2
215±10
7.87±0.20
5.7±0.20
7.6±0.3
215±10
CABLE LENGTH

FUSION LUG DETAIL

VIEW J-J

CHOKE OUTER DIAMETER RANGE

3.3 MAX

CHOKE: SEE NOTE 1 (IF INCLUDED)

2-HOLE - 45° SHRINK TUBE FUSION LUG