**MATERIALS**

1. HOUSING: LCP (UL 94V-0), BLACK.
2. TERMINAL: COPPER ALLOY,
   GOLD PLATED ON CONTACT AREA,
   GOLD FLASH PLATED ON SOLDER TAII,
   NICKEL UNDERPLATED OVER ALL

3. DIP PLATE (GND): STAINLESS STEEL, NICKEL 50u" MIN. PLATING.
4. MID PLATE (GND): STAINLESS STEEL, NICKEL 50u" MIN. PLATING.
5. INNER SHELL: STAINLESS STEEL.
6. OUTER SHELL: STAINLESS STEEL, NICKEL 50u" MIN. PLATING.

**SPECIFICATION**

1. CURRENT RATING:
   5A for VBUS (A4,A9,B4,B9)
   1.25A for Vconn PIN(85)
   WITH RETURN PATH THROUGH THE
   CORRESPONDING GND PIN(A1,A12,B11,B12).

2. DIELECTRIC WITHSTANDING VOLTAGE:
   100V AC R.M.S. FOR ONE MINUTE.

3. INSULATION RESISTANCE: 100M OHMS MIN.
4. CONTACT RESISTANCE: 40m OHMS MAX.
5. OPERATING TEMPERATURE: -55°C TO +85°C.
6. INSERTION FORCE: 5~20N.
7. EXTRACTION FORCE: 8~20N.
8. DURABILITY: 10,000 CYCLES.
9. SOLDERING HEAT RESISTANCE REFLOW SOLDERING 260°C.

**PART NUMBER INFORMATION**

- **SERIES CODE**: 237FC24-XN109T-H
- **CONTACT PLATING OPTION**: D: GOLD FLASH
- **SOLDER PLATING METHOD**: HALOGEN FREE
- **NUMBER OF POSITIONS**: 24
- **VARIATION CODE**: 0: FEMALE

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**DRAWER**

- **NAME**: USBTY C FEMALE
- **PRODUCT SPEC.**: HIGH RISE: CH=3.40 mm
- **CONFIDENTIAL**: SMT+DIP TYPE, WITH FLANGE
- **PART NO.**: 237FC24-XN109T-H

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**GENERAL TOLERANCE**

- **DIM.**: ±0.025
- **ANG.**: ±3°

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**DRAWING**

- **RECOMMENDED PCB LAYOUT**

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**Astron Technology Corp.**

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**T0123**

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**CONFIDENTIAL**

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**REVISION**

- **DATE**: JUN. 10, 2019
### PIN ASSIGNMENTS

<table>
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<tr>
<th>A12</th>
<th>A11</th>
<th>A10</th>
<th>A9</th>
<th>A8</th>
<th>A7</th>
<th>A6</th>
<th>A5</th>
<th>A4</th>
<th>A3</th>
<th>A2</th>
<th>A1</th>
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<tbody>
<tr>
<td>GND</td>
<td>Main Link 0+</td>
<td>Main Link 0−</td>
<td>VBUS</td>
<td>SBU1</td>
<td>USB2.0(D−)</td>
<td>USB3(TX−)</td>
<td>CC1</td>
<td>VBUS</td>
<td>Main Link 2−</td>
<td>Main Link 2+</td>
<td>GND</td>
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<tr>
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<td>Main Link 1+</td>
<td>Main Link 1−</td>
<td>VBUS</td>
<td>VCONN</td>
<td>USB3(RX+)</td>
<td>USB3(RX−)</td>
<td>SBU2</td>
<td>VBUS</td>
<td>Main Link 3−</td>
<td>Main Link 3+</td>
<td>GND</td>
</tr>
<tr>
<td>B1</td>
<td>B2</td>
<td>B3</td>
<td>B4</td>
<td>B5</td>
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<td>B10</td>
<td>B11</td>
<td>B12</td>
</tr>
</tbody>
</table>

**Recommended Reference Plug**

Astron P/N: 238MC24-6N006T-H
PACKAGE

1. SIZE:
   REEL: Ø330 x 24 mm
   CARTON: 345 x 345 x 320 mm (LxWxH)

2. QUANTITY:
   250 PCS / REEL
   10 REEL / CARTON = 2,500 PCS

3. CARRIER TAPE: PET, TRANSPARENT.

4. APPLICABLE DOCUMENTS: EIA-481-D