



MATERIALS

HOUSING: HI-TEMP. PLASTIC (UL 94V-0), BLACK
 CAP: HI-TEMP. PLASTIC (UL 94V-0), BLACK
 SHELL: STAINLESS STEEL, NICKEL PLATING
 TERMINAL: COPPER ALLOY, GOLD PLATING ON CONTACT AREA
 TIN PLATING ON SOLDER TAIL

SPECIFICATION

CURRENT RATING: 0.5 AMP MAX
 DIELECTRIC WITHSTANDING: 500V AC FOR ONE MINUTE
 CONTACT RESISTANCE: 30m OHMS MAX
 INSULATION RESISTANCE: 100M OHMS MIN AT DC 100V
 OPERATION TEMPERATURE: -40°C~+85°C

PART NUMBER:
 BDPEA - 2 0 * T - 1 2 1

SERIES ——— NO. OF POS. ——— CONTACT PLATED OPTION ——— TAPE REEL PACKAGE ——— TIN PLATING ON SOLDER TAIL ———

1: GOLD FLASH
 3: 3u" GOLD
 5: 5u" GOLD
 6: 10u" GOLD
 7: 15u" GOLD
 9: 30u" GOLD

CONNECTOR PIN ASSIGNMENT

| PIN Number | Signal Type | Pin Name |
|------------|-------------------------------|-----------------------------|
| 1 | In/Out | ML_Lane 3(n)/ML_Lane 0(p) |
| 2 | GND | GND |
| 3 | In/Out | ML_Lane 3 (p)/ML_Lane 0 (n) |
| 4 | In/Out | ML_Lane 2 (n)/ML_Lane 1 (p) |
| 5 | GND | GND |
| 6 | In/Out | ML_Lane 2 (p)/ML_Lane 1 (n) |
| 7 | In/Out | ML_Lane 1 (n)/ML_Lane 2 (p) |
| 8 | GND | GND |
| 9 | In/Out | ML_Lane 1 (p)/ML_Lane 2 (n) |
| 10 | In/Out | ML_Lane 0 (n)/ML_Lane 3 (p) |
| 11 | GND | GND |
| 12 | In/Out | ML_Lane 0 (p)/ML_Lane 3 (n) |
| 13 | CONFIG (see note1) | CONFIG1 |
| 14 | CONFIG (see note1) | CONFIG2 |
| 15 | I/O | AUX CH (p) |
| 16 | GND | GND |
| 17 | I/O | AUX CH (n) |
| 18 | Out/In | Hot Plug Detect |
| 19 | RTN | Return |
| 20 | Power Out/PWR Out (see note2) | DP_PWR |

Notes:
 1) Pin 13 and 14 must be connected to ground through a pull-down device. External devices and cable assemblies must be designed to not rely on a low impedance ground path from these pins.
 2) Pin 20,PWR Out,must provide +3.3 volts±10% with a maximum current of 500mA and a minimum power capability of 1.5 watts.



TOLERANCES

| | |
|---------|-----------|
| X.±0.40 | .XX±0.20 |
| .X±0.30 | .XXX±0.10 |

| | | | | | | | | | |
|------|---|-------------|-----------------|----------|---|------|----|-------|-----|
| REV. | A | DRAWN BY | Zhong 2021/9/14 | TITLE | DISPLAY PORT, PCB MOUNT, VERTICAL SMT, METAL SHIELD, FEMALE | | | | |
| | | APPROVED BY | Lion 2021/9/14 | DRAW NO. | BDPEA-001 | UNIT | MM | Sheet | 1/2 |

