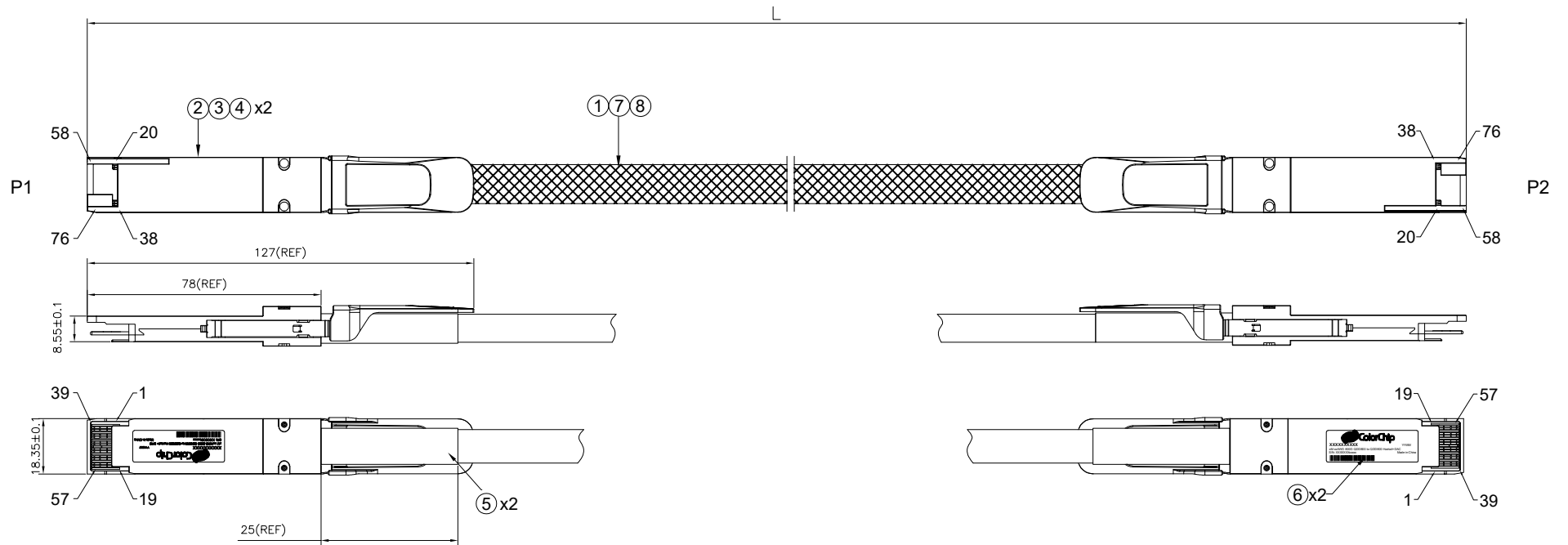


NOTICE: ALL PARTS MUST MEET TO RoHS REQUIREMENTS

| REV. | DESCRIPTION                          | DRAWN    | APPROVED | DATE       |
|------|--------------------------------------|----------|----------|------------|
| X1   | NEW DRAWING                          | ZHI YANG | RYAN     | 2022.05.20 |
| X2   | UPDATE BEND DATA & LABEL INFORMATION | ZHI YANG | RYAN     | 2022.08.18 |



NOTE:

1. RAW CABLE IMPEDANCE:  $100^{+10}_-5$  ohm, MATED CONNECTOR IMPEDANCE:  $100^{+10}_-15}$  ohm, RISE TIME: 13ps(20%~80%).
2. 100% CONDUCTOR TEST; TEST CONDITION: VOLTAGE 5V, INSULATION RESISTANCE 10M ohm; CONDUCTION RESISTANCE MAX 3 ohm .
3. HIGH-FREQUENCY TEST ACCORDING TO IEEE802.3ck STANDARD.
4. ALL MATERIAL MUST COMPLY WITH ROHS2.0.

| ITEM | NAME                 | DESCRIPTION   | Q'TY |
|------|----------------------|---|------|
| 8    | BRAID SHIELD         | COPPER, BRAID   | A/R  |
| 7    | PLASTIC BRAIDED MESH | PET, BLACK  | A/R  |
| 6    | BACK SHELL LABEL     | BACK SHELL LABEL, 29.5*10mm   | 2    |
| 5    | HEAT SHINK           | BLACK   | A/R  |
| 4    | SR                   | TPU BLACK   | 2    |
| 3    | QSFDD CONN ASSEMBLY  | Zn ALLOY, PLATED Ni OVER Cu +STAINLESS STEEL LATCH+PULLTAB+SPRING+RIVET | 2    |
| 2    | PCBA                 | QSFDD DAC PCB, 76P, Au 30u"Min  | 2    |
| 1    | SAS CABLE            | SAS CABLE, 112G, ROHS2.0  | A/R  |

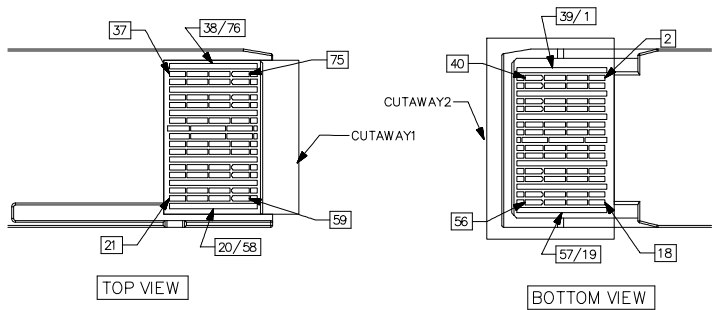
|   |   |  |
|---|---|--|
| 1. * ±0.1<br>2. ** ±0.1<br>3. *** ±0.05<br>4. FRACT. ±1/32"<br>5. ANGULAR ±1/2' | Customer P/N: N/A   |  |
|   | Customer REV.: N/A  |  |
|   | PART NO. SEE TABLE 1  |  |
|   | APPROVED Ryan, Lei  |  |
|   | CHECKED Xichun, Tan   |  |
| DRAWN Zhi, Yang   | TITLE: QSFDD800 COPPER HAIRTAIL+ DAC ASSY 800G DATA RATE, PASSIVE |  |
| DATE 2022-08-18   | DRAWING NO. SD_P-100-QD-QD-XXXB                                   |  |
|   | UNIT MM SCALE NONE SHEET 1/3 REV. X2                              |  |

NOTICE: ALL PARTS MUST MEET TO RoHS REQUIREMENTS

| LOW SPEED SIGNALS<br>P1 & P2 |           |
|------------------------------|-----------|
| PAD                          | SIGNAL    |
| 8                            | MODSELL   |
| 9                            | RESETL    |
| 10                           | VCCRX     |
| 11                           | SCL       |
| 12                           | SDA       |
| 27                           | MODPRSL   |
| 28                           | INTL      |
| 29                           | VCCTX     |
| 30                           | VCC1      |
| 31                           | INIT_MODE |
| 46                           | OPEN      |
| 47                           | OPEN      |
| 48                           | OPEN      |
| 49                           | OPEN      |
| 50                           | OPEN      |
| 65                           | OPEN      |
| 66                           | OPEN      |
| 67                           | OPEN      |
| 68                           | OPEN      |
| 69                           | OPEN      |

| WIRING DIAGRAM |        |        |     |        |
|----------------|--------|--------|-----|--------|
| P1 END         |        | P2 END |     |        |
| Pad            | Signal |        | Pad | Signal |
| 1              | GND    | —      | 20  | GND    |
| 2              | TX2n   | →      | 21  | RX2n   |
| 3              | TX2p   | →      | 22  | RX2p   |
| 4              | GND    | —      | 23  | GND    |
| 5              | TX4n   | →      | 24  | RX4n   |
| 6              | TX4p   | →      | 25  | RX4p   |
| 7              | GND    | —      | 26  | GND    |
| 13             | GND    | —      | 32  | GND    |
| 14             | RX3p   | ←      | 33  | TX3p   |
| 15             | RX3n   | ←      | 34  | TX3n   |
| 16             | GND    | —      | 35  | GND    |
| 17             | RX1p   | ←      | 36  | TX1p   |
| 18             | RX1n   | ←      | 37  | TX1n   |
| 19             | GND    | —      | 38  | GND    |
| 20             | GND    | —      | 1   | GND    |
| 21             | RX2n   | ←      | 2   | TX2n   |
| 22             | RX2p   | ←      | 3   | TX2p   |
| 23             | GND    | —      | 4   | GND    |
| 24             | RX4n   | ←      | 5   | TX4n   |
| 25             | RX4p   | ←      | 6   | TX4p   |
| 26             | GND    | —      | 7   | GND    |
| 32             | GND    | —      | 13  | GND    |
| 33             | TX3p   | →      | 14  | RX3p   |
| 34             | TX3n   | →      | 15  | RX3n   |
| 35             | GND    | —      | 16  | GND    |
| 36             | TX1p   | →      | 17  | RX1p   |
| 37             | TX1n   | →      | 18  | RX1n   |
| 38             | GND    | —      | 19  | GND    |

| WIRING DIAGRAM |        |        |     |        |
|----------------|--------|--------|-----|--------|
| P1 END         |        | P2 END |     |        |
| Pad            | Signal |        | Pad | Signal |
| 39             | GND    | —      | 58  | GND    |
| 40             | TX6n   | →      | 59  | RX6n   |
| 41             | TX6p   | →      | 60  | RX6p   |
| 42             | GND    | —      | 61  | GND    |
| 43             | TX8n   | →      | 62  | RX8n   |
| 44             | TX8p   | →      | 63  | RX8p   |
| 45             | GND    | —      | 64  | GND    |
| 51             | GND    | —      | 70  | GND    |
| 52             | RX7p   | ←      | 71  | TX7p   |
| 53             | RX7n   | ←      | 72  | TX7n   |
| 54             | GND    | —      | 73  | GND    |
| 55             | RX5p   | ←      | 74  | TX5p   |
| 56             | RX5n   | ←      | 75  | TX5n   |
| 57             | GND    | —      | 76  | GND    |
| 58             | GND    | —      | 39  | GND    |
| 59             | RX6n   | ←      | 40  | TX6n   |
| 60             | RX6p   | ←      | 41  | TX6p   |
| 61             | GND    | —      | 42  | GND    |
| 62             | RX8n   | ←      | 43  | TX8n   |
| 63             | RX8p   | ←      | 44  | TX8p   |
| 64             | GND    | —      | 45  | GND    |
| 70             | GND    | —      | 51  | GND    |
| 71             | TX7p   | →      | 52  | RX7p   |
| 72             | TX7n   | →      | 53  | RX7n   |
| 73             | GND    | —      | 54  | GND    |
| 74             | TX5p   | →      | 55  | RX5p   |
| 75             | TX5n   | →      | 56  | RX5n   |
| 76             | GND    | —      | 57  | GND    |



|                |             |
|----------------|-------------|
| Customer P/N:  | N/A         |
| Customer REV.: | N/A         |
| PART NO.       | SEE TABLE 1 |
| APPROVED       | Ryan, Lei   |
| CHECKED        | Xichun, Tan |
| DRAWN          | Zhi, Yang   |
| DATE           | 2022-08-18  |

**ColorChip**

TITLE: QSFP-DD800 COPPER HAIRTAIL+ DAC ASSY 800G DATA RATE, PASSIVE

DRAWING NO. SD\_P-100-QD-QD-XXXB

|      |       |       |      |
|------|-------|-------|------|
| UNIT | SCALE | SHEET | REV. |
| MM   | NONE  | 2/3   | X2   |

- \* ±0.1
- \*\* ±0.1
- \*\*\* ±0.05
- FRACT. ±1/32"
- ANGULAR ±1/2°

NOTICE: ALL PARTS MUST MEET TO RoHS REQUIREMENTS

QSFP-DD BACKSHELL LABEL INFORMATION



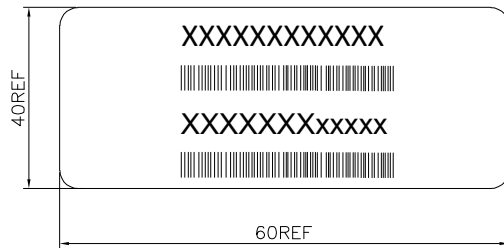
- ← ColorChip LOGO
- ← CUSTOMER P/N: SEE PO FOR DETAIL; WEEK OF MANUFACTURE
- ← DESCRIPTION
- ← SN:SEE SN NOTE; Made in China
- ← 128CODE SN: XXXXXXXxxxxx

SN NOTE:

XXXXXXXXxxxxx

00001~99999  
PO NO.

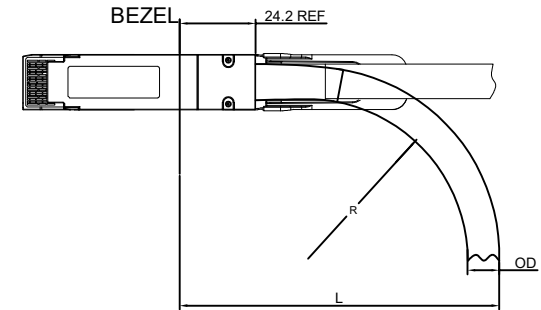
ANTI-STATIC BAG LABEL INFORMATION



- ← CUSTOMER P/N: SEE PO FOR DETAIL
- ← 128CODE CUSTOMER P/N
- ← SN:SEE SN NOTE
- ← 128CODE SN: XXXXXXXxxxxx

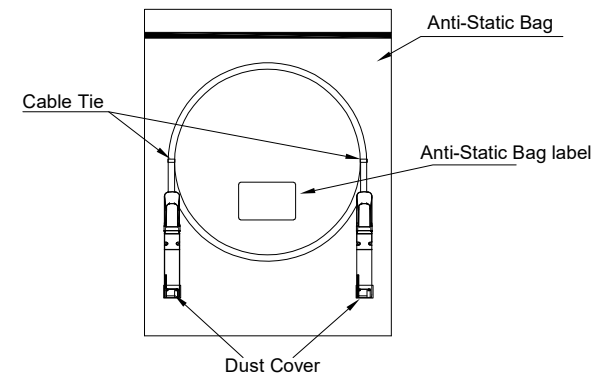
TABLE 1

| ITEM | CUSTOMER PN | MODEL NUMBER     | PART NUMBER   | LENGTH   | AWG |
|------|-------------|------------------|---------------|----------|-----|
| 1    | TBD         | P-100-QD-QD-005B | 1180100004001 | 500±50   | 28  |
| 2    | TBD         | P-100-QD-QD-010B | 1180100004002 | 1000±80  | 28  |
| 3    | TBD         | P-100-QD-QD-015B | 1180100004003 | 1500±80  | 26  |
| 4    | TBD         | P-100-QD-QD-020B | 1180100004004 | 2000±100 | 26  |



| SAS CABLE GAUGE | CABLE "OD"  | MIN. BEND RADIUS"R" | MIN. BEND SPACE"L" |
|-----------------|-------------|---------------------|--------------------|
| 28 AWG          | 10.2 REF MM | 20.4 MM             | 64 MM              |
| 26 AWG          | 12.1 REF MM | 24.2 MM             | 68 MM              |

BEZEL



|   |                      |   |  |
|---|----------------------|---|--|
| 1. * ±0.1<br>2. ** ±0.1<br>3. *** ±0.05<br>4. FRACT. ±1/32"<br>5. ANGULAR ±1/2" | Customer P/N: N/A    |   |  |
|   | Customer REV.: N/A   |   |  |
|   | PART NO. SEE TABLE 1 |   | TITLE: QSFP-DD800 COPPER HAIRTAIL+ DAC ASS'Y 800G DATA RATE, PASSIVE |
|   | APPROVED Ryan, Lei   |   | DRAWING NO. SD_P-100-QD-QD-XXXB                                      |
|   | CHECKED Xichun, Tan  |   |  |
| DRAWN Zhi, Yang   |                      |   |  |
| DATE 2022-08-18   |                      |   |  |
|   |                      | UNIT SCALE SHEET REV.<br>MM NONE 3/3 X2 |  |