

JWB-001_README.PDF

Please refer to fabrication drawing for all specifications and fabrication details.

Quantity: 10
Delivery: Standard
Shipping address:

Jewelbots
c/o Techstars
1407 Broadway, 24th Floor
New York, NY 10018

Design contacts:
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Part Number-----: JWB-001
Revision-----: 3.5
Board size-----: 0.94488" x 0.94488"
Board Thickness-----: 0.036"
Board type-----: FOUR LAYER
P.C.B material-----: 370HR
Finished Copper-----: 1 oz
Finish-----: ENIG
Solder Mask on Bare Copper-----: Yes
Mask type-----: LPI
Mask color-----: GREEN
Silk screen color-----: WHITE
Surface mount-----: Yes
Smallest trace size-----: 0.003"
Smallest clearance between traces-: 0.003"

Layer Stackup:

| Layer Name | Type | Material | Thickness (mil) | Dielectric Material | Dielectric Constant |
|----------------|---------------|-----------------|--------------------|------------------------|------------------------|
| Top Overlay | Overlay | | | | |
| | Solder | | | | |
| Top Solder | Mask/Coverlay | SurfaceMaterial | 0.4 | Solder Resist | 3.5 |
| Top | Signal | Copper | 1.4 | | |
| Core 1 | Dielectric | Prepreg | 6 | 370HR | 4.02 |
| Layer 2 | Signal | Copper | 0.7 | | |
| Core 2 | Dielectric | Core | 19 | 370HR | 4.02 |
| Layer 3 | Signal | Copper | 0.7 | | |
| Core 3 | Dielectric | Prepreg | 6 | 370HR | 4.02 |
| Bottom | Signal | Copper | 1.4 | | |
| | Solder | | | | |
| Bottom Solder | Mask/Coverlay | SurfaceMaterial | 0.4 | Solder Resist | 3.5 |
| Bottom Overlay | Overlay | | | | |

Request Impedance Control on the following nets:

Differential Nets:

ANT1 (Val: 100ohms)
Coord: (124, 244.252) in mil

ANT2 (Val: 100ohms)
Coord: (124, 228.504) in mil

Zo_diff = 50ohms

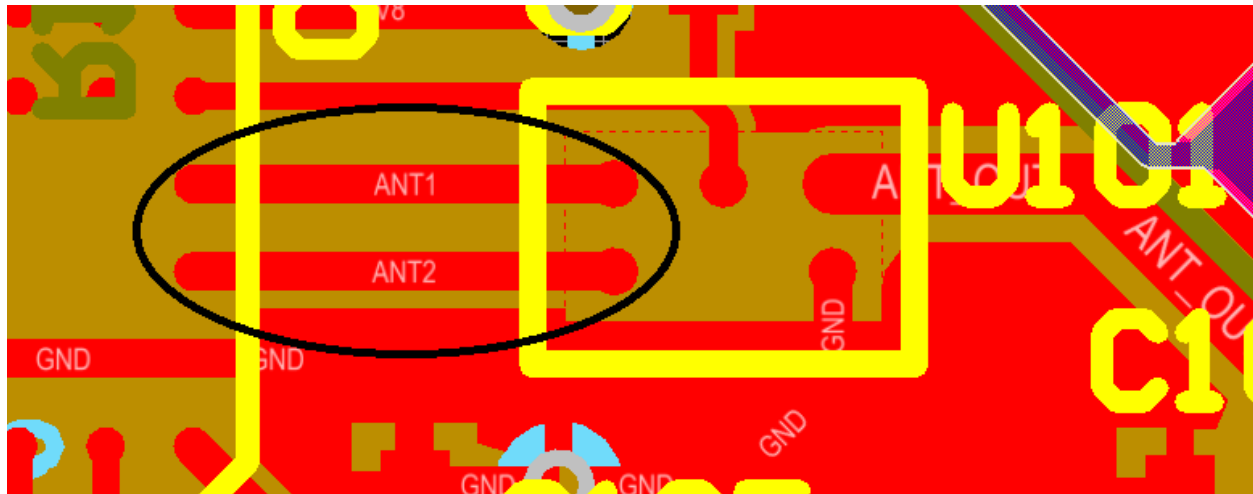


Fig. 1: Diff-pair route

Single Nets:

ANT_OUT (Val: 50ohms)
Coord: (266, 227) in mil

ANT_MATCH (Val: 50ohms)
Coord: (388, 157) in mil

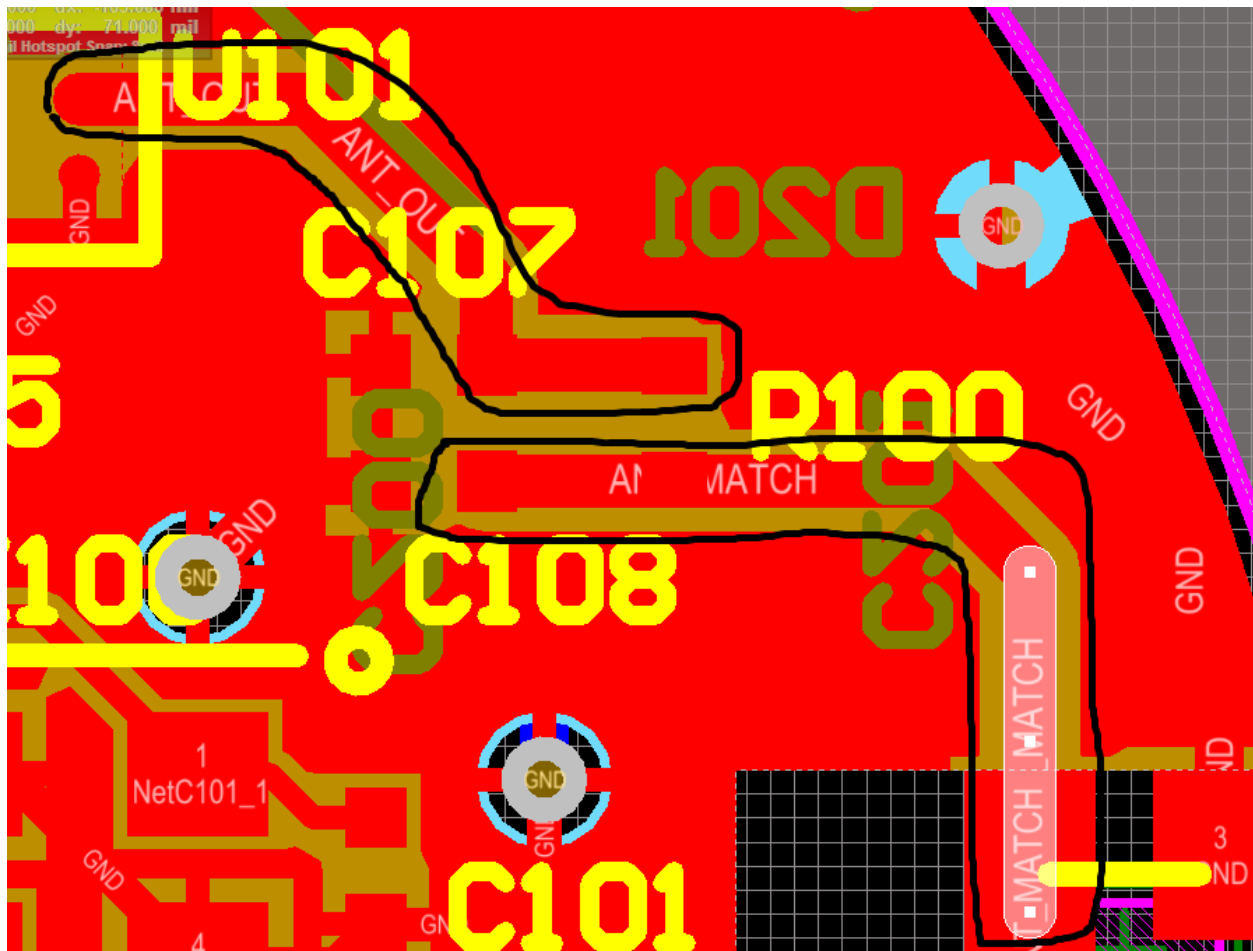


Fig. 2: Single 50ohm traces