

A

B

C

D

E

**FABRICATION NOTES:**

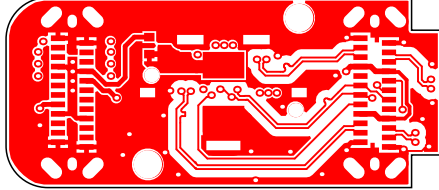
Fabricate per IPC-6011 & IPC-6012 CLASS 2  
Inspect per IPC-A-600 CLASS 2  
Test per IPC-TM-650

- \* PCB has 4 copper layers
- \* Copper thicknesses are finished and include base foil plus Cu plating on plated layers.
- \* PCB thickness: please refer to the Layer Stack Legend
- \* Min. trace width/clearance: 0.1mm/0.1mm
- \* Min. hole drill/ring: 8mil/16mil
- \* Soldermask gang relief is allowed for pads in same footprint, if footprint is NSMD.
- \* Silkscreen: no silkscreen
- \* Solder mask color: green
- \* Surface finish: ENIG
- \* Hole dimensions are finished size, +/-3mil
- \* Linear board dimension tolerance: +/-10mil
- \* Bow, twist, warp not to exceed 0.75% of greatest diagonal span
- \* PCB shall be UL Recognized printed wiring board (ZPMV2), minimum flammability rating 94V-0
- \* PCB shall be marked with fabricator company or trade name, UL mark, and date code using legend ink on secondary side
- \* All PCBs shall be electrically tested for opens and shorts per gerber. Test marking shall be marked on secondard side.
- \* GM1 shall be used as PCB outline GKO can be ignnored.

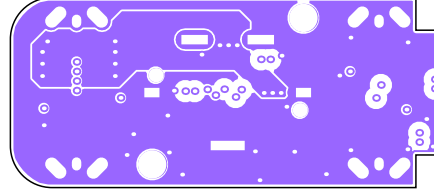
Fabricator shall panelize the PCB using mouse bites and tab routing. V-scoring not allowed.

Controlled impedance differential pairs shall be within +/-10% for 100ohm targets, and +/-10% for 90ohm targets. See Sheet 3 for transmission line details and location of 90ohm differential pairs.

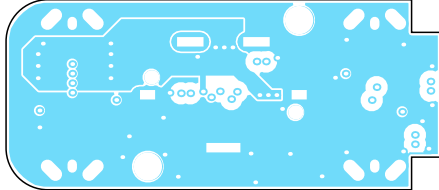
Layer 1 (Scale 5:2)



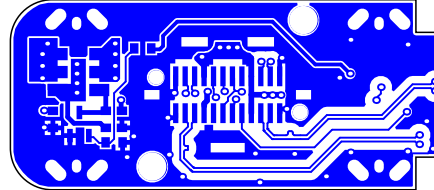
Layer 3 (Scale 5:2)



Layer 2 (Scale 5:2)



Layer 4 (Scale 5:2)

Title: **DM6010**

Number: D0001093

Revision: R2M2  
E2

Date: 11/10/2021

Sheet: 1 of 3

Drawn by: David Malovrh

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A

B

C

D

E

Layer Stack Legend

| Layer                              | Thickness         | Type        | Gerber | Df   | Dk  |
|------------------------------------|-------------------|-------------|--------|------|-----|
| Top Solder Mask                    | 0.70mil(0.018mm)  | Solder Mask | GTS    |      | 3,5 |
| Layer 1                            | 1.40mil(0.036mm)  | Signal      | GTL    |      |     |
|                                    | 2.80mil(0.071mm)  | Dielectric  |        | 0,02 | 4   |
| Layer 2                            | 1.10mil(0.028mm)  | Signal      | G1     |      |     |
|                                    | 27.95mil(0.710mm) | Dielectric  |        | 0,02 | 4,3 |
| Layer 3                            | 0.80mil(0.020mm)  | Signal      | G2     |      |     |
|                                    | 2.80mil(0.071mm)  | Dielectric  |        | 0,02 | 4   |
| Layer 4                            | 1.40mil(0.036mm)  | Signal      | GBL    |      |     |
| Bottom Solder Mask                 | 0.70mil(0.018mm)  | Solder Mask | GBS    |      | 3,5 |
| Total thickness: 39.65mil(1.007mm) |                   |             |        |      |     |

Drill Table

| Symbol   | Count | Hole Size         | Plated     | Hole Tolerance |
|----------|-------|-------------------|------------|----------------|
| ⊕        | 60    | 8.00mil(0.203mm)  | Plated     |                |
| □        | 9     | 19.69mil(0.500mm) | Plated     |                |
| ○        | 8     | 27.56mil(0.700mm) | Plated     |                |
| ◇        | 2     | 29.53mil(0.750mm) | Non-Plated |                |
| ⊗        | 2     | 59.06mil(1.500mm) | Non-Plated |                |
| 81 Total |       |                   |            |                |

Title: **DM6010**

Number: D0001093      Revision: R2M2  
E2

Date: 11/10/2021      Sheet: 2 of 3

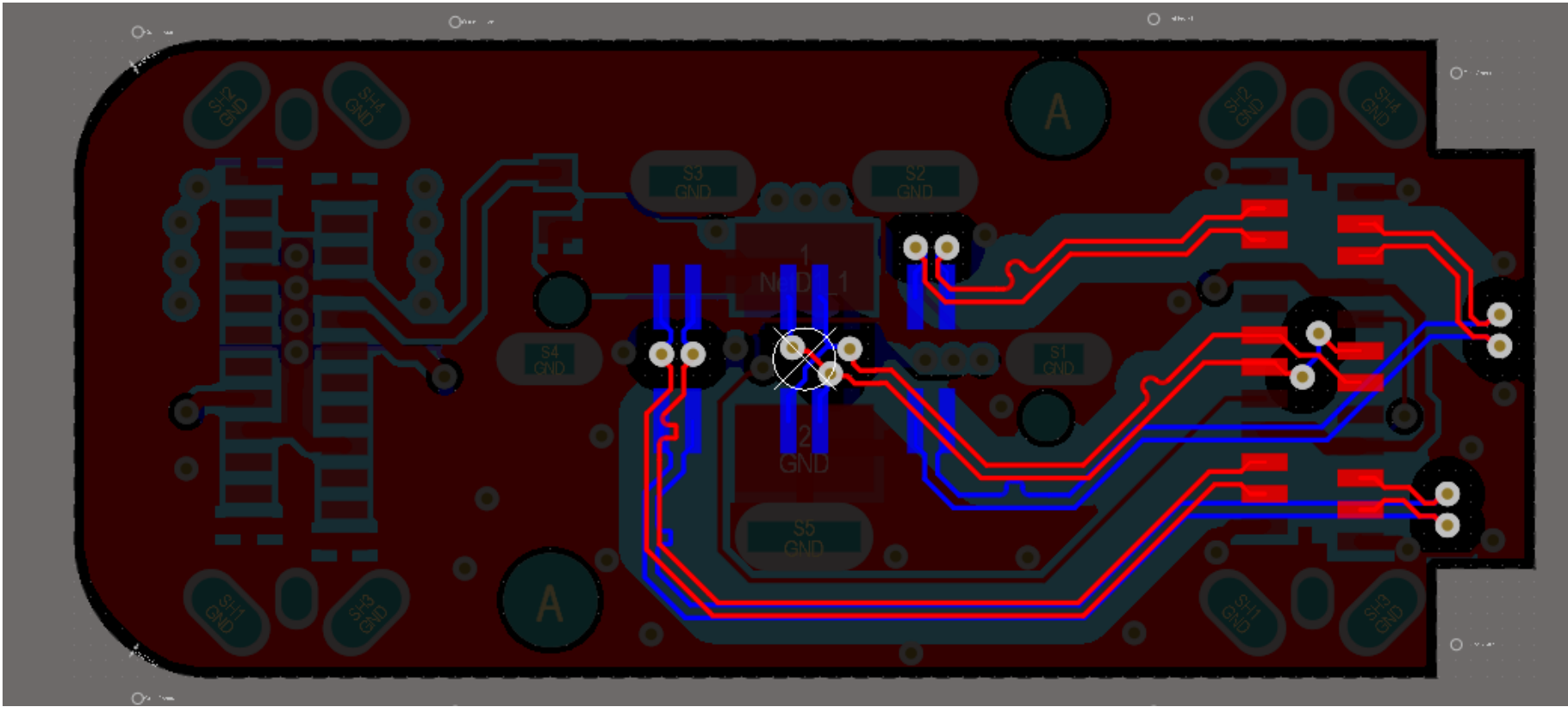
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90 OHM (+/-10%) DIFF PAIRS



Transmission Line Structure Table

| Target Impedance | Trace layer | Lower Trace Width | Upper Trace Width | Gap             | Reference layers |
|------------------|-------------|-------------------|-------------------|-----------------|------------------|
| 90               | Layer 1     | 4.0mil(0.102mm)   | 4.0mil(0.102mm)   | 5.0mil(0.127mm) | Layer 2          |
| 90               | Layer 4     | 4.0mil(0.102mm)   | 4.0mil(0.102mm)   | 5.0mil(0.127mm) | Layer 3          |

|                         |                      |
|-------------------------|----------------------|
| Title: <b>DM6010</b>    | Revision: R2M2<br>E2 |
| Number: D0001093        |                      |
| Date: 11/10/2021        | Sheet: 3 of 3        |
| Drawn by: David Malovrh |                      |

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