

## DIGITAL AUDIO PLAYER CASE2CARD

### PCB Function: -

It is **MP3** player with nonvolatile flash memory where digitally compressed songs are stored in **MP3** formats. While playing the song the data is decompressed and played on to headphone or speakers. This was a mixed connector, containing Analog and Digital circuits.

Analog and digital circuits were placed separately and care was taken while routing that the analog and digital signals do not mix together. Some of the tracks were guarded. The components are placed on both sided, whatever the options customer asked was provided. Track thickness used is 6 mills and with the spacing of 6 mills. This project was completed with in 8 to 10 days and total man-hour spent on this are 100 hours.

*This card worked for first time. The reception of this card was excellent and noise free.*

### VITAL STATISTICS

- Length 57.86 mm.
- Width 81.86 mm.
- Thickness 1.0mm
- No. of layers 2
- Component count 331
- Nets 189 (719 total connections)
- Vias 389
- Track thickness and spacing 6 mills
- Board frequency
- No. of hours taken 100 Hrs.

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