

## Case Study 2 - PCBA

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## ❑ Background

- ❑ Customer wants to reuse their fast moving existing design where 3 types of 4PDT Relays were obsolete

## ❑ Scope

- ❑ Identify and replace with an exact functional Relay.

## ❑ Challenges

- \* Replacement Part BOM Qty increased by almost 200%
- \* Retaining same Board Dimension.
- \* Component population allowed on only TOP side.
- \* All existing electrical parameters to be maintained.

## ❑ Our Solution

- ❑ As all MFRs discontinued 4PDT Relays, Suggested DPDT Relay as replacement with a minor design change.
- ❑ Each 4PDT Relay replaced by 2 No X DPDT + a Coil Protection Diode.

## ❑ Final Delivery and Schedule

On Time Delivery with new solution (with addition of 106 parts in place of 39 parts within the same space), completed in a cycle time of 14 working days.

