

# **DIP** Dual Inline Package

Dual Inline Packages (DIP) are industry proven and used for a variety of applications including sensors, switches, relays, chargers and other devices requiring a thru-hole mounted package. DIP body sizes range from 9.2x6.4x3.4mm to a maximum of 52.3x13.7x3.4mm and have package thickness of 3.4 and 3.5mm. JCET offers full turnkey assembly and test services for DIP packages.

# **Highlights**

- Thru-hole mounted package
- Excellent thermal and electrical performance
- Full in-house assembly and test capability

### **Features**

- DIP body size production ranges from 9.2 x 6.4 x 3.4mm to a maximum of 52.3 x 13.7 x 3.4mm
- Package thicknesses of 3.4 and 3.5mm available
- Si / GaAs / RDL assembly capability

### **Standard Materials**

- Leadframe
- Wire
- PPF / Ag plating / Selective Ag plating
- Gold wire / Cu wire / AuPdCu wire
- Epoxy DAF / Screen print / Conductive / Non-conductive epoxy / Sintering epoxy / Solder paste
- I/O finish
  Sn plating/PPF

# **Applications**

- Telecommunications
- Portable
- Sensors
- ESD Protection
- Chargers
- Switch Relays
- Transformers





### **Process Highlights**

Package thickness

Wire count

Autoclave

HAST

- Die thickness 2
  - 290um minimum >10wires

3.4mm-3.5mm

Die Stack Two

## **Package Level Reliability**

- Moisture Sensitivity LevelTemperature Cycling
  - NA (Non-applicable to thru-hole)
    - –65C to 150C, 1000 cycles
  - 121C / 100%RH/2atm, 168hrs

150C, 1000 hrs

- High Temperature Storage
- 85C / 85% RH, 1000 hrs

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