



Welding Technology Used in Repair

Bare PCB and PCB with Components

Speaker : Mr. P. C. Leung
Director, Year 2000 Ltd.

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Contents

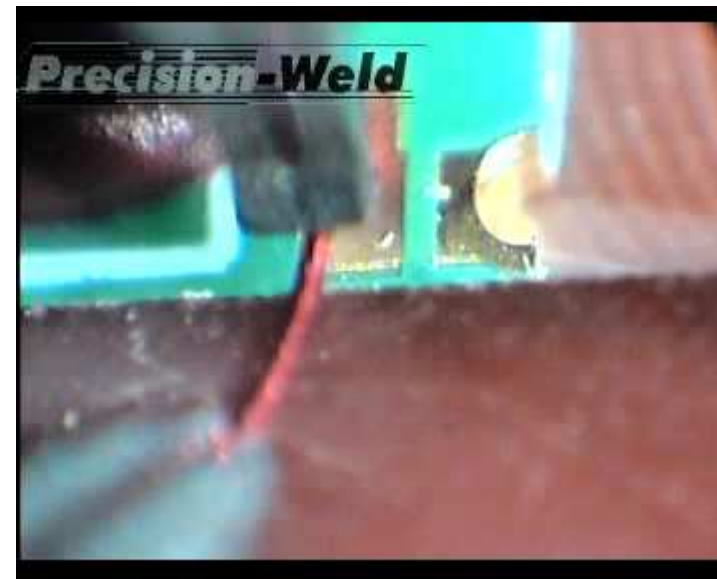
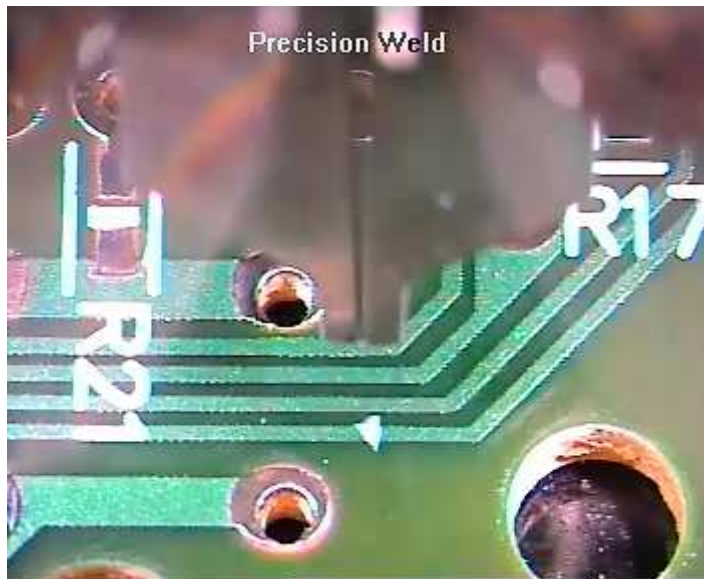
- Welding Machine Model
- Theory of Welding
- Development History
- Existing Situation
- Advantages
- In Your Projects ...
- Weaknesses
- Successful Cases
- Conclusion

Welding Machine Model: **PW-06**



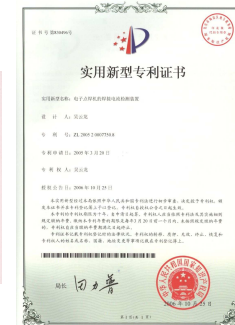
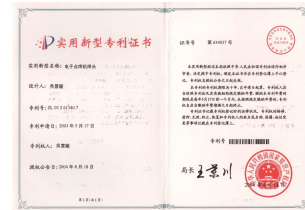
Theory of Welding

- Traditional welding
- PW-06 vs. Traditional welding
 - PCB repair
 - Component assembly



Development History

- In the beginning
 - In-house necessity turn commercial opportunity
- Patents awarded
 - Welding tip
 - Pressure sensor
 - Current detector



- Award

2006 Hong Kong Awards
for Industries





Existing Situation

- Component Assembly
- PCB Manufacturing
- Engineering / R&D

- Positive user feedback
 - User friendly
 - Reliable
 - Cost reduction

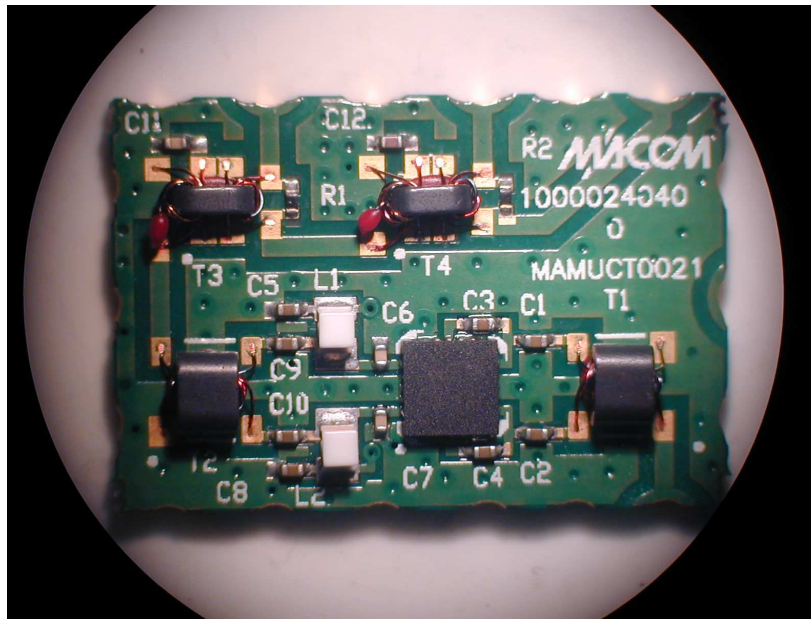


Advantages

- Suitable for super-mini sized products
- Low learning curve
- Environmental Friendliness
 - Lead-free
 - Energy savings
 - No Solder Flux

In Your Projects...

- PCB circuit repair
- Add-on components in PCB
- Engineers / R&D projects





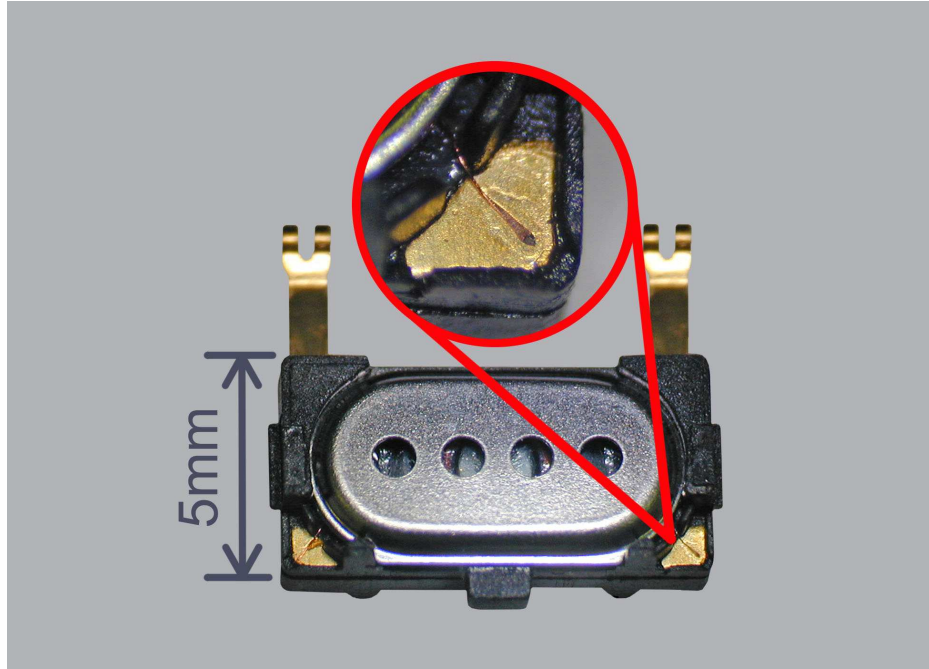
Weaknesses

- Multi-layer PCB
- Normal sized component



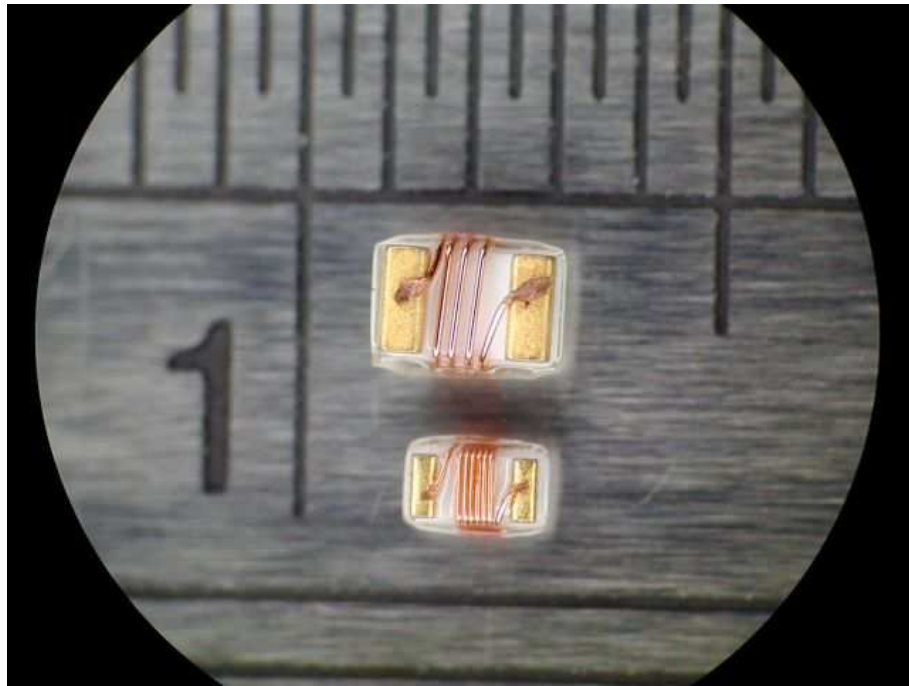
Super mini motor

Successful Case



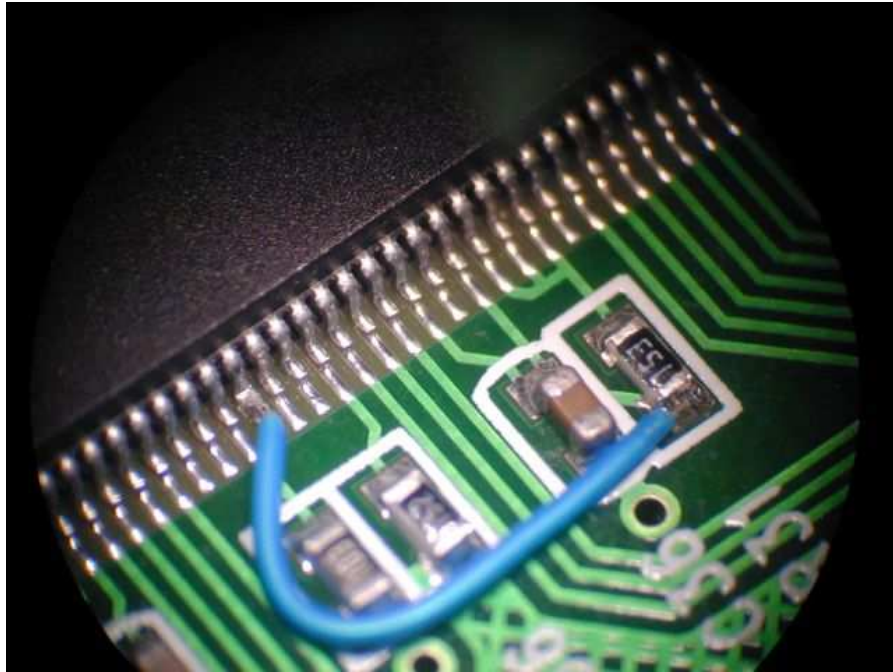
Mobile phone speaker

Successful Case (con't)



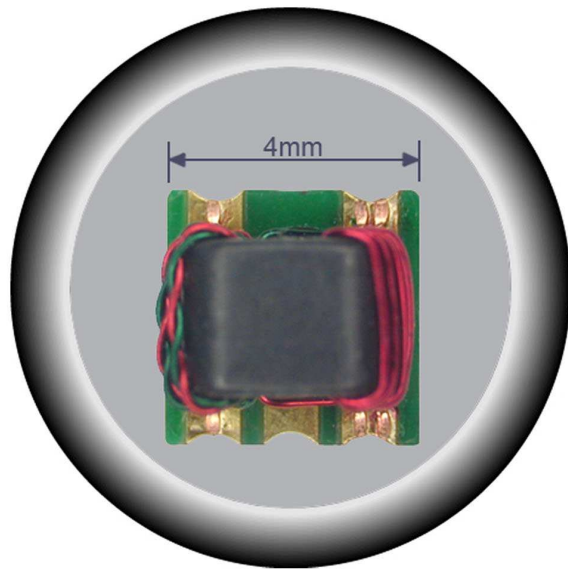
Chip components

Successful Case (con't)



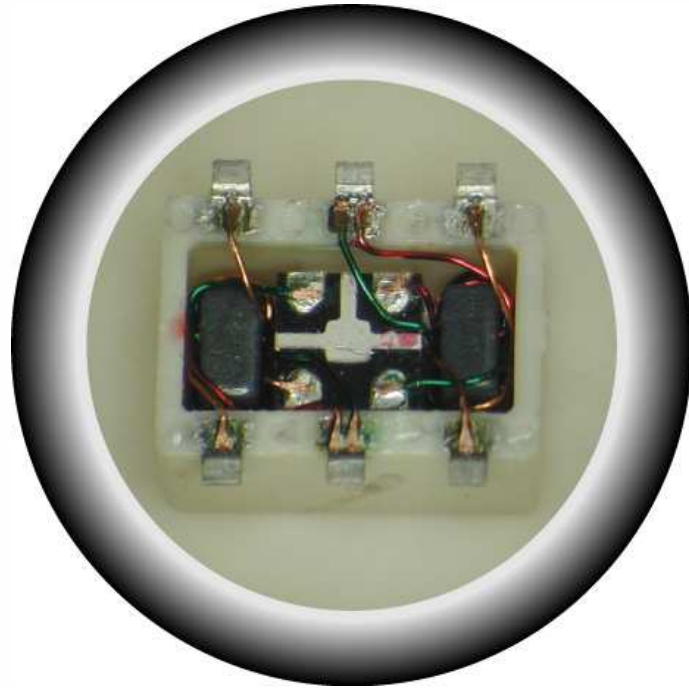
PCBA repair
(Expensive PCB, sample add-on)

Successful Case (con't)



Super-mini sized transformer

Successful Case (con't)



All small sized component which cannot be handled by hand soldering

**Successful
Case
(con't)**



Conclusion

- Possibilities brought forth by miniaturized welding
- Engineering / R&D departments to adopt welding machine as an essential tool, along side power supplies, soldering irons, and screwdrivers