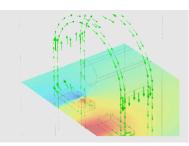
Shield Attachment

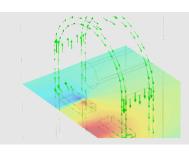


"Notes on the Attachment and Assembly of Magnetic Shields and Cores"

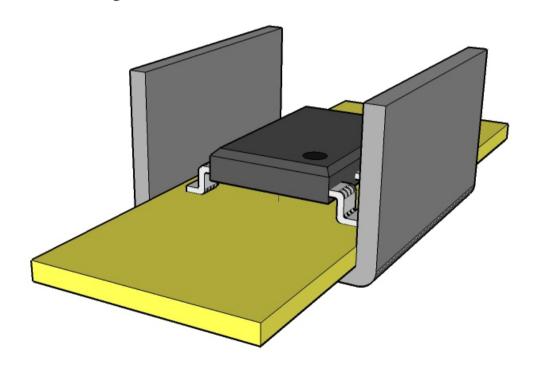
26 Aug 2016
P. Krummenacher



Assembly Methods

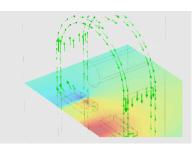


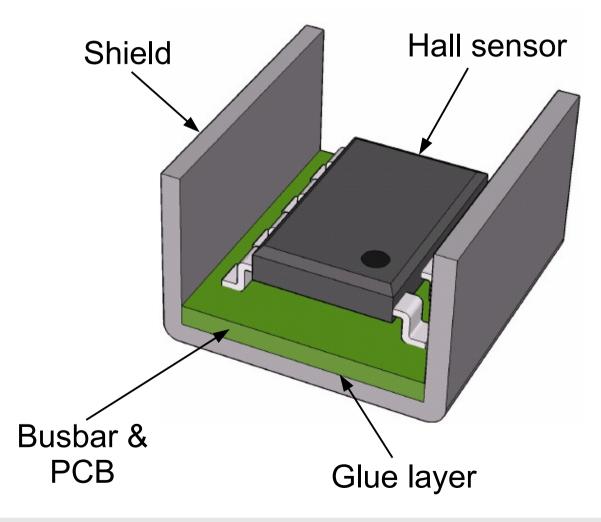
- The following methods for the shield attachment and assembly are established
 - Glue
 - Plastic mold
 - PCB assembly and soldering
 - Crimp
 - Screw





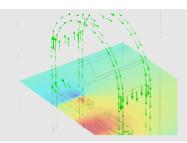
Glue





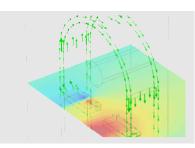


Glue (II)



- Masterbond adhesives (www.masterbond.com)
- Suitable products
 - Supreme10HT (one component), note the minimum cure temperature of +125C
 - EP21TDCHT (two component), cureing overnight at room temperature followed by a few hours at a temperature between 70°C and 90°C

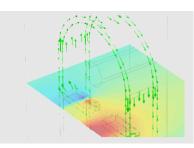
Glue (III)



- Protavic adhesives (www.protavic.com)
- Suitable products include:
 - One component epoxies (e.g. ANE17794)
 - Two component epoxies (e.g. ANE36142)
 - Ferrite bonding epoxies



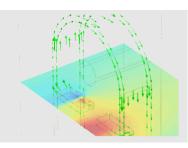
Glue (IV)



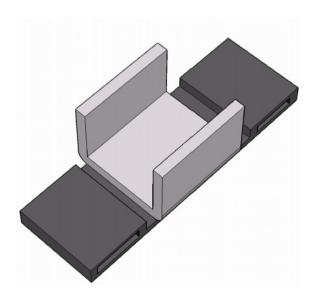
- 3M adhesive tapes (www.3m.com)
- Suitable products:
 - High performance tape with adhesive 200MP, e.g. 468MP
 - Transfer tape with adhesive 100MP

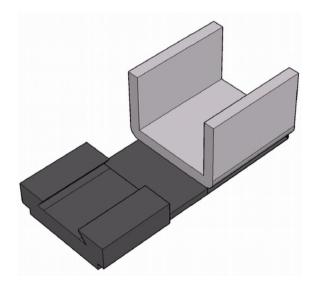


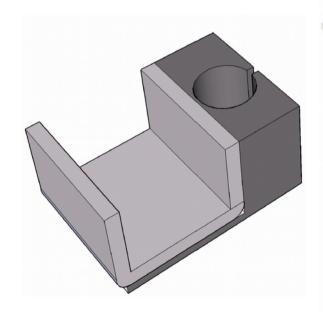
Plastic Mold



 Mechanical attachment of the shield in the final product via the molded plastic

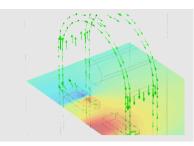




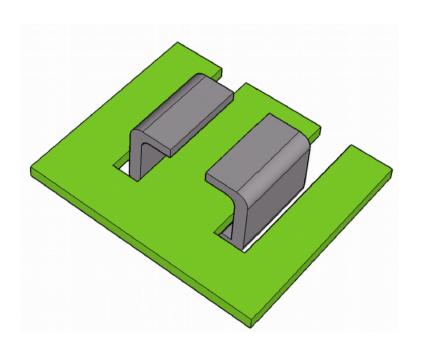


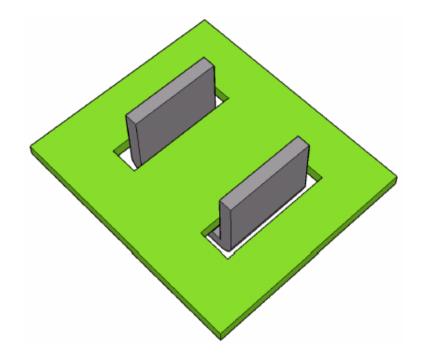
Dannation

PCB Assembly



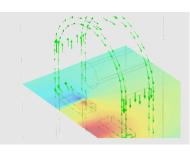
Slot / slit solution examples



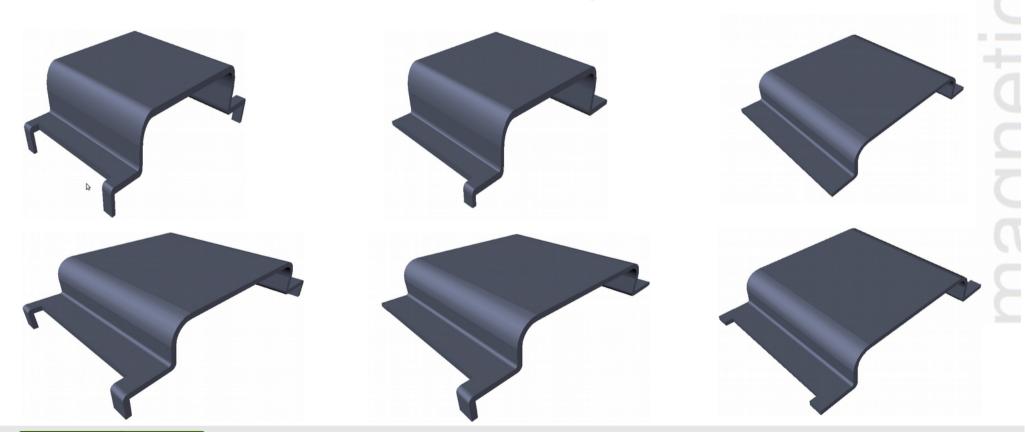




PCB Assembly (II)

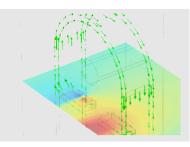


- Conventional through pin or SMD assembly
- Shields with tinned soldering leads

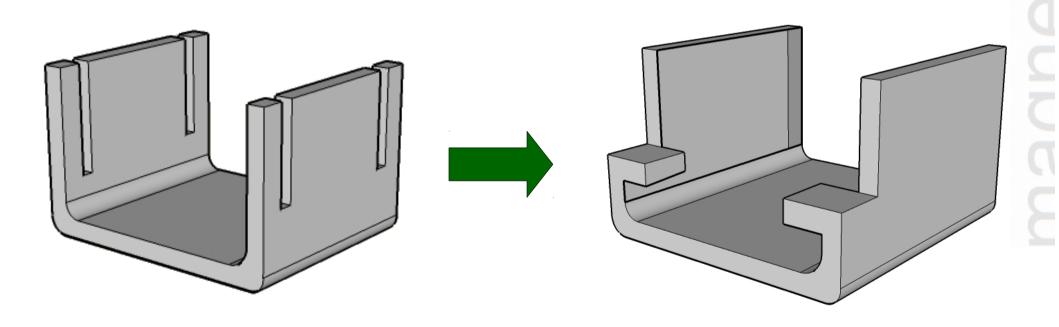




Crimp

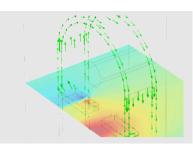


 Crimping by bending a small part of the shield, far from the center where the sensor is located

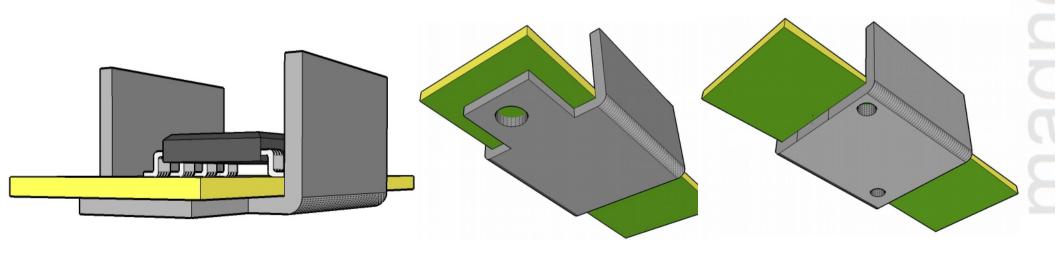




Screw



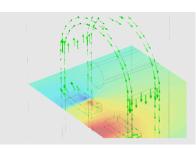
Dedicated screwing terminal or holes



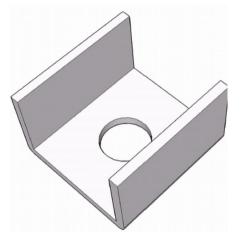


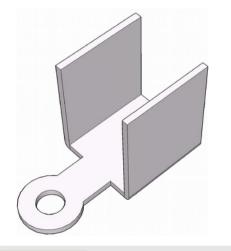
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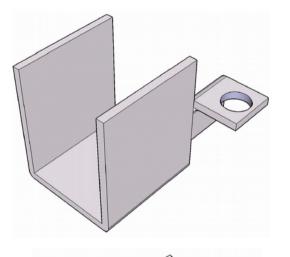
Screw (II)

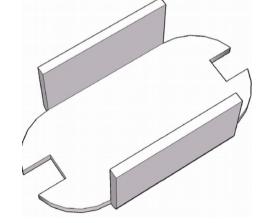


Shield models with screwing capability

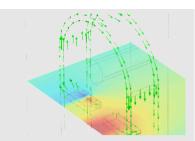












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