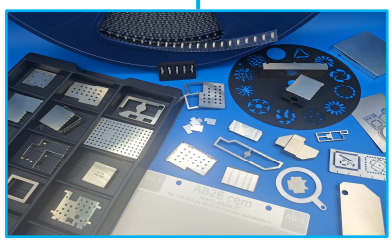
Shielding & Cover Box



Shielding covers are usually used for component shielding on PCB or sometimes even the overall shielding of the entire PCB. The technologies used to produce these shielding enclosures depend on their size, shape and quantity requirements. We have the choice between stamping and photoengraving. AB2E masters these two manufacturing technologies to best meet your custom or standard needs. Stamping is generally used for series > 10,000 parts or 3,000 recurring parts, allowing the amortization of the tooling. Photogravure allows thanks to its low tooling cost to offer you small and medium series and also individually, for applications on specifications in a very economical way. In addition, it allows you to quickly obtain your prototype within 10 days.

Technology comparison

Features	Stamping	Photoengraving
Material Use	Tinned steel*	Nickel (Cu/Ni/Zn alloy)*
Thickness (mm)	0,2 to 1	0,2 to 0,8
Tolerance (mm)	+/- 0,15	See page 2
Profitability qty	> 10 000 approx.	1 à 10 000 approx.

**Other materials on request: Beryllium Copper, Nickel Silver Alloy.*

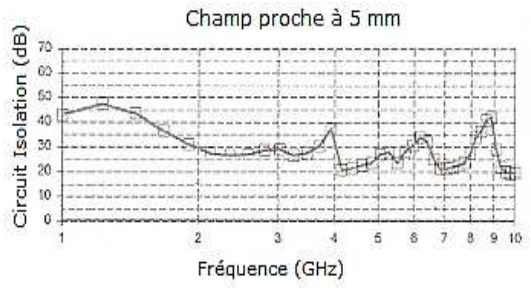
Design options

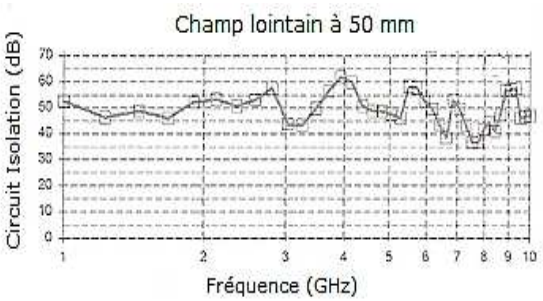
- Available in 1 or 2 parts (belt + lid).
- With or without mounting tabs.
- Different solutions for closing the lid are available.
- Possibility to compartmentalize the inside of the case (illustration page3).

Benefits of Photoengraving

- Engraving (logo) on request.
- Choice of finish: matte or glossy.
- Finer tolerances.

Shielding attenuation curves for a photoetched part:





NB: Values measured on a steel part. These values are only contractual since each cover, will have according to its design own specifications (attenuations). The decibel value of the Isolation Circuit is the post-shielding measurement that comes from a PCB having a certain reference value before shielding from 1 to 10 Ghz. From this, the attenuation in (dB) of the shield cover is deduced.

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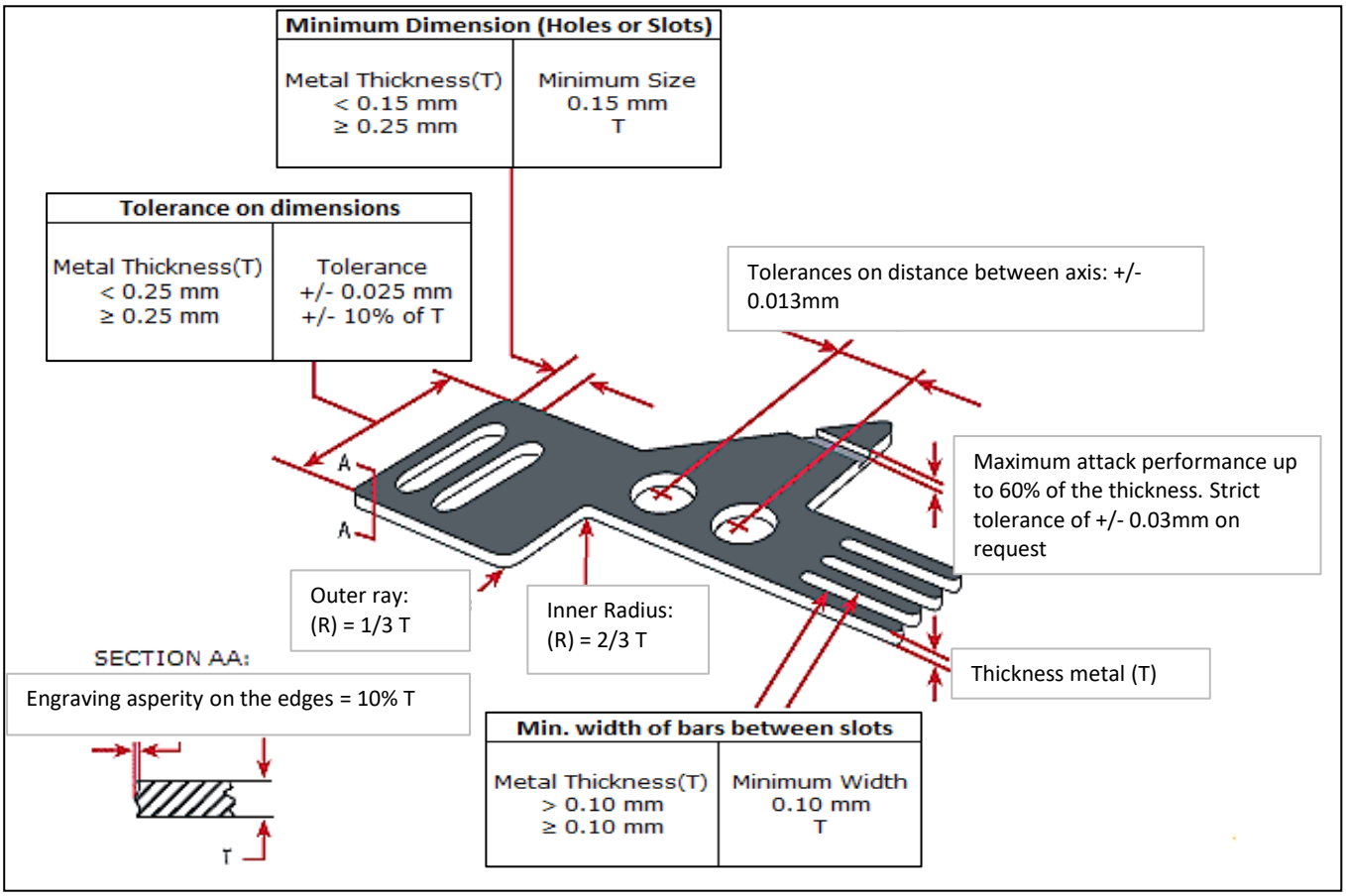
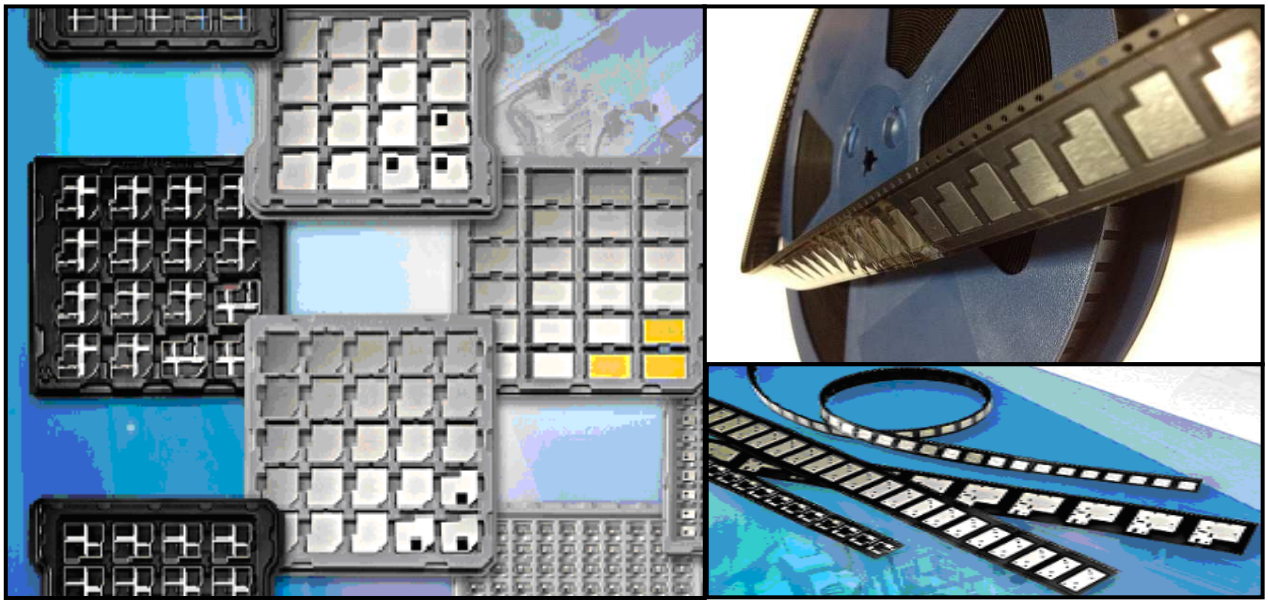
Photoengraving tolerances



Packaging

Depending on your needs, AB2E packages your covers in tape (Tape Reel) for automated implementation, on tray (Tray) or in bulk.



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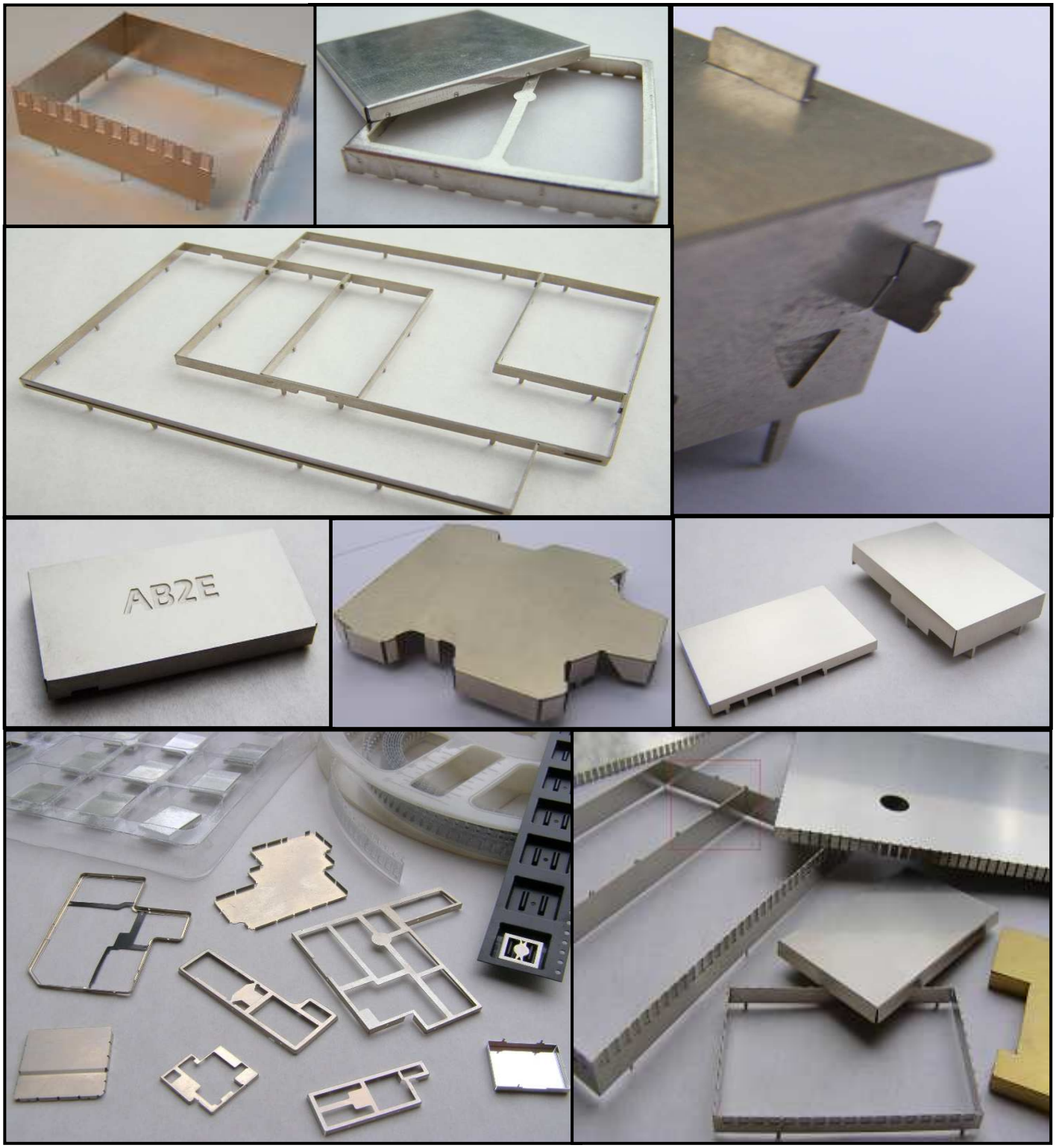
Illustrations



The results were obtained under laboratory conditions and should be considered only as an indication. As AB2E has no control over its customers' equipment and many other factors, it is the user’s responsibility to carry out its own tests to ensure that the product corresponds to its needs.