



ADVANCED CHEMICAL ETCHING LTD

# SHIELDING



## EMI/RFI SHIELDING

*Advanced Chemical Etching (ACE) are a leading manufacturer of EMC/RFI Shielding Cans throughout the electronics and SMT industries. Using photo etching to economically produce screening cans without cost implications for increased complexity of design.*

Modern production lines with a high degree of automation ensure that **ACE produce millions of shielding components to time and quality.** Because of digital photographic tooling, ACE can supply customers multi-part tooling, offering the flexibility to include several design variations on one sheet of metal. **The photo tooling can be modified in a matter of minutes to produce samples in hours, not days or weeks.** Once the component design is finalised the photo tool for production volumes is created.

### CAPABILITY

ACE supplies screening cans in various metals such as **stainless steel, copper alloys, nickel alloys and aluminium, and can etch in material thicknesses from 0.10mm to 1.50mm to tight tolerances.** Additional features such as company logos can also be depth etched on individual components. **The chemical etching process achieves burr-free components, that are free from thermal stress ensuring effectiveness of downstream processes.** And complexity of the design does not affect cost.

### FORMING

EMI/RFI shielding cans are supplied either formed and spot welded or flat with half etched fold lines for manual forming at the point of assembly. **Using our in-house forming and spot-welding capability, ACE has total control over quality and delivery.**

### COATING

Components can also be supplied with selective electrical insulation coating on either flat or formed parts. **Special coatings are available to improve the reduction of high frequencies; selective, dielectric coating enables lower profile cans to be utilised safely.**

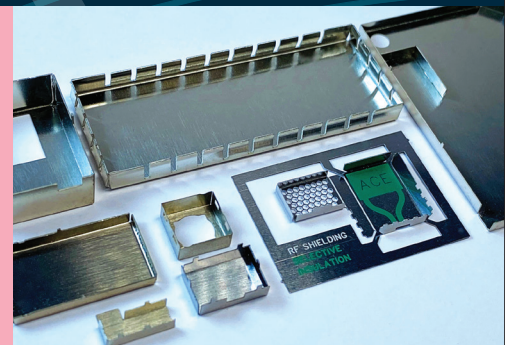
### PLATING

Parts can be supplied plated for improved solderability, functionality, aesthetics and protection. **All standard plating finishes are available and include tin, matt, nickel (sulphate), electroless nickel, and acid gold hard.**

**Contact ACE today on +44 (0)1952 416 666 to find out what we could produce for you – whether it's 1s or millions.**

## KEY FACTS ABOUT EMC/RFI SCREENING CANS

- » **Design Flexibility** – The digital tooling is cost-effective ensuring modifications to tooling can be done very quickly and economically.
- » **Burr & Stress-Free** – Resultant parts are burr and stress-free leading to minimum assembly time on the line.
- » **Low Set-Up Costs** – The tooling for etching is digital and low cost.
- » **Short Lead Times** – Complex geometries manufactured in high volumes within weeks.



**A PROCESS OF INNOVATION**