



Security Foil Data Sheet

Our tamper proof security foil consists of a single or double sided printed circuit which uses different adhesive systems, so circuits tend to be broken when removal is attempted.

The circuit pattern is a dense sensor mesh whose role is to detect any effort to drill through the foil.

Finally the circuit is folded or embossed and wrapped around the part of the device to be protected in such a way that future attacks are prevented from all directions.

In some cases the circuit will have to be bonded onto the plastic material to offer an even better protection.

Components and bare chips are sometimes mounted on the security mesh using a low temperature conductive adhesive generally followed by UV encapsulation for better mechanical performance.

General specifications :

- Circuitry density: 0.5mm pitch (e.g. 0.2mm line and 0.3mm space)
- Construction: single sided, double sided
- Substrate: PET (50 to 100µm)
- Substrate colour: black, white, clear
- Circuit resistance: 0.015 to 30 ohms per sq
- Environment performance: 75°C, 85%RH for 196 hours.
- Thermal shock temperature: -40°C to 85°C (subject to design)
- Wrapping radius: 1mm (typical)
- Dome: 0.5mm diameter, 180 to 300 gf

Special features :

- Anti-tamper breakable conductors
- High density sensor mesh for intrusion protection
- Folding, embossing, 3D forming
- Low temperature component assembly
- Glob top encapsulation
- Radio opaque
- EMI shielding

Applications :

- Point of sales terminal (POS)
- Automatic teller machine (ATM)
- Data storage