

APPLICATION SHEET

FILTER WITH POINTED CORNERS

CUT 'N' SEAL



■ The task

The ventilation opening in an electronic component has to be protected against the ingress of dust, using a fine fleece filter. The square filters measure 25x25 mm and require a sealed edge zone and pointed corners.

■ The solution

The ultrasonic cut 'n' seal technology is very suitable for manufacturing this filter pad with sealed edge and pointed corners. With this process it is possible to carry out cutting and sealing functions at the same time. As these filters are quite small it is possible to produce several parts at the same time in one work cycle. The cutting dies are designed for multiple use. With respect to the pointed corners it is important that the anvil is appropriately constructed.

■ The advantages

The ultrasonic cut 'n' seal process is an interesting production method from the cost-efficiency point of view, which can meet all requirements for the finishes of the edge zone. The process is reliable, can easily be automated and offers various options for quality control. By using multi-cavities it is possible to achieve a high production output.



The application has been produced using a USP3000 welding system with appropriate tools or, alternatively, with the components integrated into a production line.

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