

Resistors

On Board

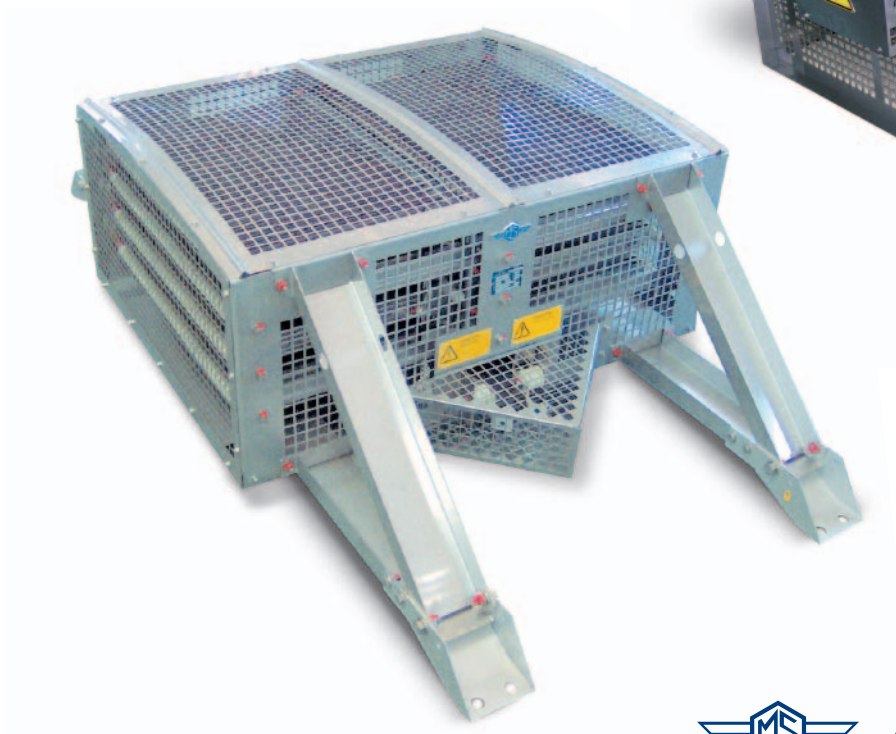
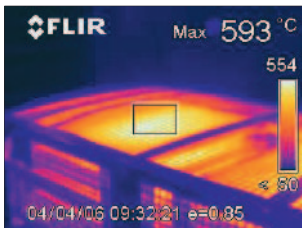
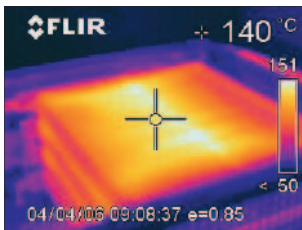
Braking

Braking Resistors are used to transform kinetic energy of the vehicle into heat by means of electric braking.

Braking Resistors are usually installed:

- On the roof of a vehicle, where hot exhaust air is released upwards
- Under frame, where the hot air released is exhausted sideways when the vehicle is in motion or using a blower
- Inside the vehicle, where the resistors are usually forced air cooled, where fresh air is taken from the bottom of the vehicle and hot air is expelled from the top

Resistor elements are assembled in banks by means of strong rods and ceramic spacers. The banks are contained in strong shoulders or support frame of AISI 304 stainless steel.



Microelettrica Scientifica

Resistors

On Board: Braking



Applications

Rail on Board

Stainless steel is also used for bolts, nuts and washers. The resistors are designed to avoid disturbing noises caused by pulsating current.

Resistors are designed by our engineers with a sophisticated 3D model in order to find the best solution for customers and to withstand shocks and vibrations that normally occur in operation. Design and all production, strictly follow ISO 9001-2008 quality standards and the most severe international specifications.

All our resistors are type tested at our test room where real service conditions can be reproduced via mock-up and motion air flow simulation. All Microelettrica Scientifica sites are equipped with dedicated testing facilities to guarantee product compliance with spec requirements.

A Railway Resistor is a 100% custom made product, where a few constructive and technological principles are applied in a project-specific mechanical frame layout.



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