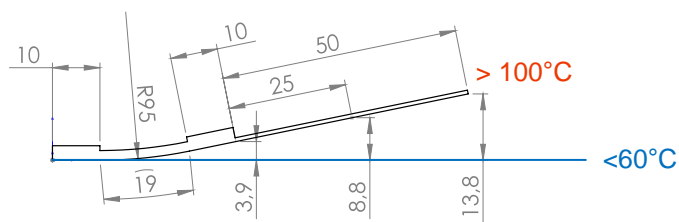


# Datasheet Actuation Module: *Curve*® unplugged 1950M



- Active length: **19 mm**
- Module size: 39 mm x **50 mm** x 2.5 mm
- Bending: medium (**M**)
- Module weight: 6.5 g

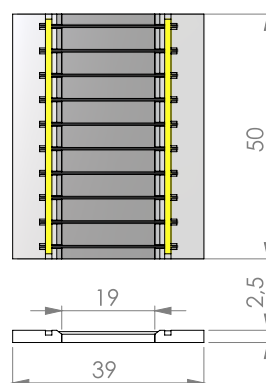
## Hosting structure and actuation module



- Example hosting structure: stainless steel 0.45 mm
- Load range with minor reduction of deflection and high cycling stability (>200 000)

at module edge:	1536 g
at 25 mm:	825 g
at 50 mm:	564 g

## Actuation module



- Operating mode: **unplugged**
- Thermal activation by: external heating
- Possible external heating: convection, radiation, conduction
- Maximum temperature: 130°C

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All values are only estimations!

## Customized high performance actuation modules by ...

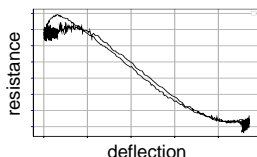


### ... high-tech solutions

- reliable load transfer
- proven cycle stability
- injection molded frame elements
- special SMA material specifications
- high temperature FRP
- self-sensing capability



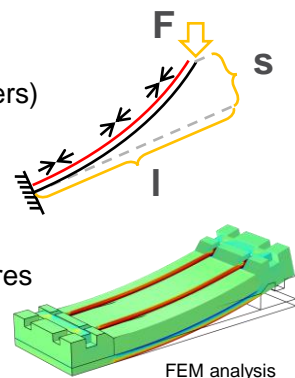
actuator test bench



deflection

### ... individual design

- substrate (metals, polymers)
- size
- deflection
- load / cycles
- wire material / temperatures
- electrical resistance



FEM analysis

### ... customized mechanical fixation

- adhesive films
- liquid adhesives
- bolts, rivets, screws
- plug-on

### ... various electrical connection

- crimping
- soldering
- plugging in
- welding



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