# ANPx51/RES/LT - linear x-nanopositioner

1003262

## Technical Specifications

| | |
|---|---|
| **Size and Dimensions** | |
| footprint; height | 15 mm x 18 mm; 9.2 mm |
| maximum installation space | 18 mm x 18 mm; 9.2 mm |
| weight | 7.2 g |
| height | 9.2 mm |
| cable | 30 cm cable with connector |
| **Materials** | |
| positioner body | titanium |
| actuator | PZT ceramics |
| connecting wires | insulated twisted pair, copper |
| **Coarse Positioning Mode** | |
| travel range (step mode) | 3 mm |
| maximum drive velocity @ 300 K | ~ 1 mm/s |
| input voltage range | 0 - 60 V |
| **Fine Positioning Mode** | |
| fine linear positioning range @ 300 K | 3.5 µm |
| fine linear positioning range @ 4 K | 0.5 µm |
| fine positioning resolution | sub-nm |
| input DC voltage range @ 300 K | 0 - 100 V |
| input DC voltage range @ 4 K | 0 - 150 V |
| **Position Encoder** | |
| readout mechanism | resistive sensor |
| encoded travel range | full travel |
| sensor resolution | ~ 200 nm |
| sensor power (when measuring) | 0.01 - 1 mW |
| repeatability | 1..2 µm (unidirectional) |
| **Load (@ ambient conditions)** | |
| maximum load | 25 g |
| maximum dynamic force along the axis | 1 N |
| **General Specifications** | |
| environment | /LT |

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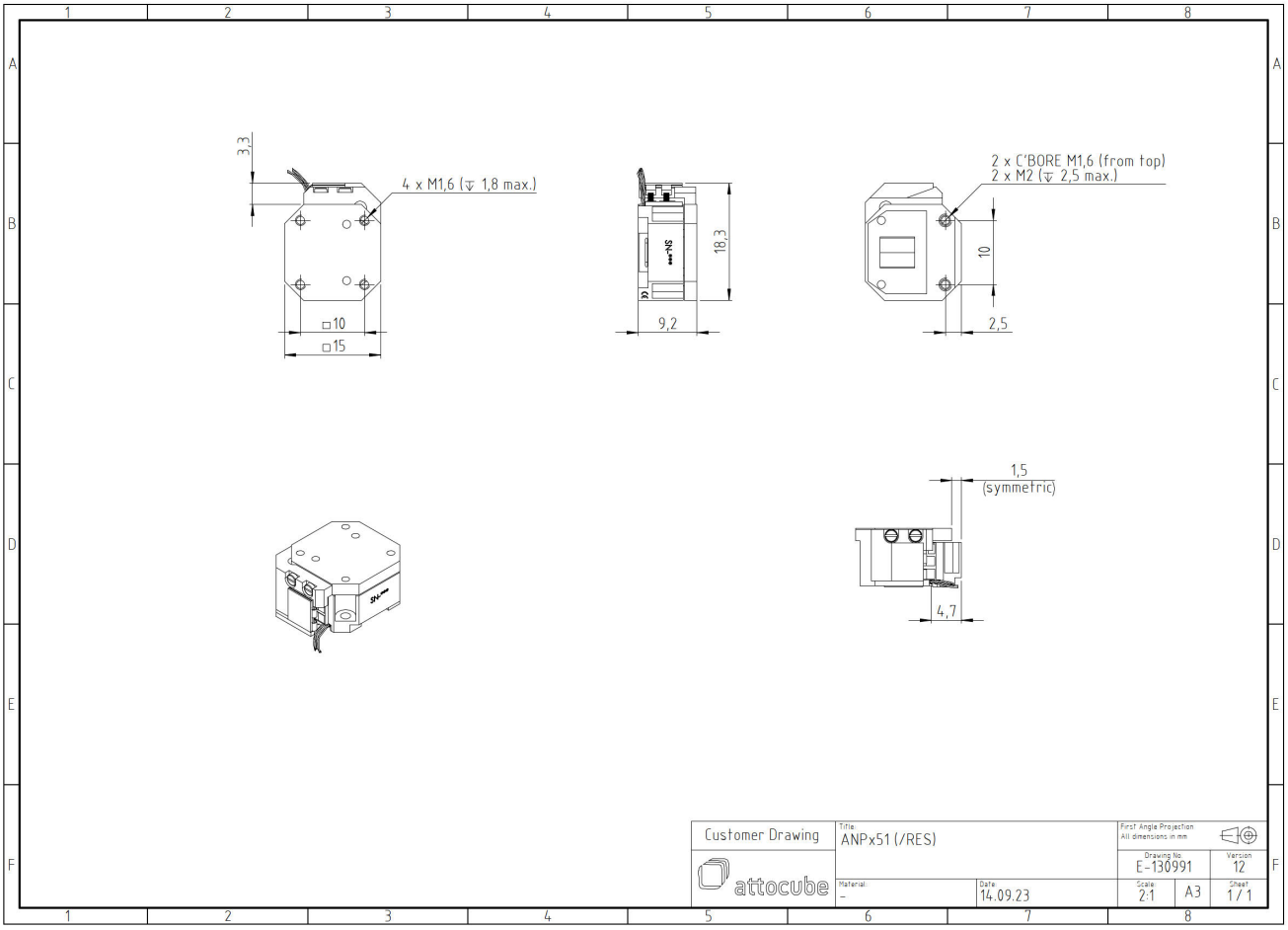


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