

# ANPz102/LT - linear z-nanopositioner

1009455

## Technical Specifications

|                                       |                                |
|---------------------------------------|--------------------------------|
| <b>Size and Dimensions</b>            |                                |
| footprint; height                     | 24 mm x 24 mm; 27 mm           |
| maximum installation space            | 24 mm x 24 mm; 32 mm           |
| weight                                | 53 g                           |
| <b>Materials</b>                      |                                |
| positioner body                       | titanium                       |
| actuator                              | PZT ceramics                   |
| connecting wires                      | insulated twisted pair, copper |
| <b>Coarse Positioning Mode</b>        |                                |
| travel range (step mode)              | 4.8 mm                         |
| maximum drive velocity @ 300 K        | ~ 3 mm/s                       |
| input voltage range                   | 0 - 60 V                       |
| <b>Fine Positioning Mode</b>          |                                |
| fine linear positioning range @ 300 K | 3.5 $\mu$ m                    |
| fine linear positioning range @ 4 K   | 0.5 $\mu$ m                    |
| fine positioning resolution           | sub-nm                         |
| input DC voltage range @ 300 K        | 0 - 100 V                      |
| input DC voltage range @ 4 K          | 0 - 150 V                      |
| <b>Load (@ ambient conditions)</b>    |                                |
| maximum load                          | 200 g                          |
| maximum dynamic force along the axis  | 5 N                            |
| <b>General Specifications</b>         |                                |
| environment                           | /LT                            |

