



HIGH-DYNAMICS VOICE-COIL NANO-POSITIONER

- High-speed response with fast settling times for dynamic optical adjustments
- Sub-micron accuracy and repeatability for precise lens, objective, or sensor positioning
- Compact footprint with integrated motion controller
- Custom-engineered designs to meet specific optical and packaging constraints

TECHNICAL SPECIFICATIONS				
Dimensions - including electronics	[mm]	65x60x38		
Z Stroke (possibility to extend to 7mm with the current voice coil)	[µm]	2880		
Z Position accuracy for		360µm stroke in 10ms: ±1µm		
Z Position accuracy for	360µm stroke in 6ms: ±2.5µm			
Time for back movement		20ms for the 2880µm Z stroke		
Z Minimal incremental motion	[nm]	40		
Z Max speed	[mm/s]	150		
Z Max acceleration	[G]	9		
Z Peak force	[N]	24.9		
Z Continuous force	[N]	5.62		
Back EMF Cst	[Vs/m]	6.18±10%		
Motor		AVM 30-7		
Motor Cst	[N/SqrtW]	1.37N/SqrtW		
Resistance @25°C	[Ω]	5.94±10%		
Inductance	[mH]	1.41±20%		

GUIDANCE TECHNOLOGY		L-SERIES LINEAR BEARING	BALL BUSHING
X-Y Absolute lateral deviation	[µm]	±1.5	±1
X-Y Repeatable lateral deviation	[µm]	±1.5	±0.5
TX-TY Absolute angular error	[µrad]	±70	±30
TX-TY Repeatable angular error	[µrad]	±30	±10

Remark: Device under development, values subject to modification * Please feel free to contact us for any customization request