

# ZMI LC Compact 2-Axis HSPMI

P/N	DESCRIPTION	OPTICAL
6191-0542-01	2-Axis Compact HSPMI, straight-through	Linear displacement resolution (nominal) 0.31 nm (ZMI 2000)
6191-0541-02	2-Axis Compact HSPMI, right-angle	0.15 nm (ZMI 4000)
PHYSICAL CHARACTERISTICS		Linear displacement range (typical) 0 to 1000 mm
Dimensions	See Figure	Angular displacement resolution 0.005 arc sec (ZMI 2000)
Weight	113 grams (4.0 oz)	0.003 arc sec (ZMI 4000)
Materials	Base- non-magnetic stainless steel Cover- aluminum Optics- BK7, crystalline quartz, Zerodur Adhesives- vacuum grade, low volatility	Linear displacement range (maximum) $\pm 150$ arc sec @ 250 mm (typical) $\pm 40$ arc sec @ 1000 mm (typical)
COMPONENTS		Maximum deviation of transmitted beam $\leq 2$ arc min
Not Included	Plane Mirror, Fiber Optic Pickup	Incoming beam diameter 3 mm
Notes:		Measurement beam spacing (center-to-center) 6.35 mm
Available with low outgassing adhesives for high vacuum applications.		Signal Efficiency $>21\%$ per axis with a plane mirror having 99% reflectance at 633 nm at normal incidence
This interferometer performs optical differencing.		

