

ZMI 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) ± 150 arc sec @ 250 mm (typical)
COMPONENTS		± 40 arc sec @ 1000 mm (typical)
Not Included	Plane Mirror, Fiber Optic Pickup	Maximum deviation of transmitted beam ≤ 2 arc min
Notes:		Incoming beam diameter 3 mm
Available with low outgassing adhesives for high vacuum applications.		Measurement beam spacing (center-to-center) 6.35 mm
This interferometer performs optical differencing.		Signal Efficiency > 21% per axis with a plane mirror having 99% reflectance at 633 nm at normal incidence

