

ZMI High Stability Plane Mirror Interferometer (HSPMI)

P/N	DESCRIPTION	OPTICAL	
6191-0318-01	HSPMI, right-angle	Linear displacement resolution (nominal)	0.31 nm (ZMI 2000) 0.15 nm (ZMI 4000)
6191-0318-02	HSPMI, straight-through	Out-of-parallelism of transmitted beam to input beam	≤10 arc min
PHYSICAL CHARACTERISTICS			
Dimensions	See Figure	Maximum error due to tolerances in polarizing optical elements	± 1 nm (0.04 μin)
Weight	305 grams (10.6 oz)	Thermal drift coefficient (typical) (change of indicated distance per degree C temperature change)	< 0.018 micrometer/degree C (< 0.724 microinch/degree C)
Materials	Housing- magnetic stainless steel Optics- BK7, crystalline quartz, Zerodur Adhesives- vacuum grade, low volatility	Signal Efficiency	60% with plane mirror having 99% reflectance at 633 nm at normal incidence
COMPONENTS			
Included	Polarization Beamsplitter, Retroreflector, Quarter Waveplate, Quarter Waveplate Plane Mirror Assembly		
Not Included	Plane Mirror, Fiber Optic Pickup		

