

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		Maximum error due to tolerances in polarizing optical elements ± 1 nm (0.04 μ m)
Dimensions	See Figure	Thermal drift coefficient (typical) (change of indicated distance per degree C temperature change) < 0.018 micrometer/degree C (< 0.724 microinch/degree C)
Weight	305 grams (10.6 oz)	Signal Efficiency 60% with plane mirror having 99% reflectance at 633 nm at normal incidence
Materials	Housing- magnetic stainless steel Optics- BK7, crystalline quartz, Zerodur Adhesives- vacuum grade, low volatility	
COMPONENTS		
Included	Polarization Beamsplitter, Retroreflector, Quarter Waveplate, Quarter Waveplate Plane Mirror Assembly	
Not Included	Plane Mirror, Fiber Optic Pickup	

