

# 1250-BS-926

## NIR Acousto-Optic Deflector



1106

The Model 1250-BS-926 is a high speed deflector for sequential multi-beam or faster scan operation. The unit incorporates four section acoustic beam steering to produce a flat scan response. The 1250-BS-926 may be operated with up to nine watts CW optical power at 1.064 or 1.1 $\mu$ m.

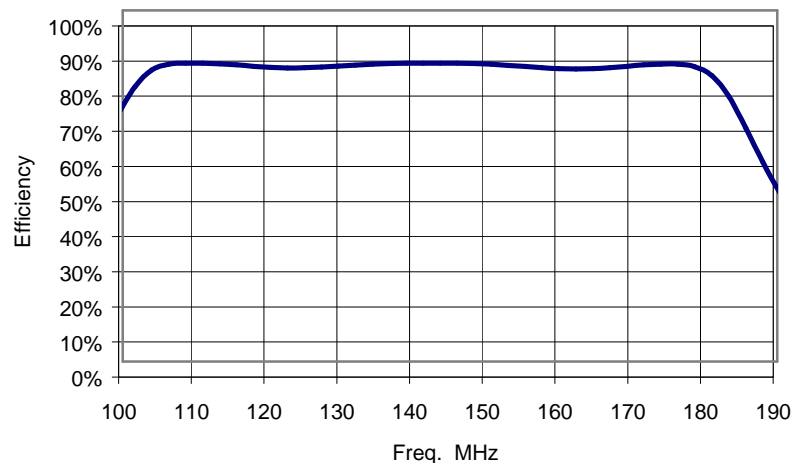
### FEATURES

- Flat Scan Response
- 9 Watts Optical Input
- High Speed Deflection (7 $\mu$ Sec Scan Rate/Line)

### PRELIMINARY SPECIFICATIONS

Operating Wavelength:	1.06 $\mu$ m / 1.1 $\mu$ m
Interaction Material	Lead Molybdate (PbMoO <sub>4</sub> )
Active Aperture:	0.525mmH x 3.0mmW
Access Time (max):	0.8 $\mu$ sec
Bragg Angle (1.1 $\mu$ m)	22 mrad
Scan Angle (1.1 $\mu$ m)	21 mrad
Optical Power:	9.0 Watts
Centre Frequency:	145MHz
RF Bandwidth:	>70MHz
% Diffraction Efficiency:	$\geq$ 80.0%
RF Power:	$\leq$ 4.0 Watts

### TYPICAL DIFFRACTION EFFICIENCY VS. FREQUENCY (0.36mm Dia' Beam)



**ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**

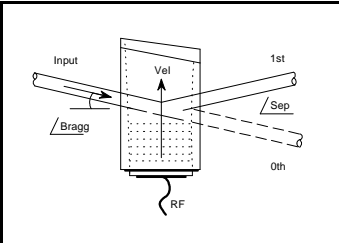
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

Tel: (703) 321 8301 Fax: (703) 321 8546

E-mail: [ISOMET@ISOMET.COM](mailto:ISOMET@ISOMET.COM) Web Page: [WWW.ISOMET.COM](http://WWW.ISOMET.COM)

**Quality Assured.**

**In-house: Crystal Growth,  
Optical Polishing,  
A/R coating, Vacuum Bonding**



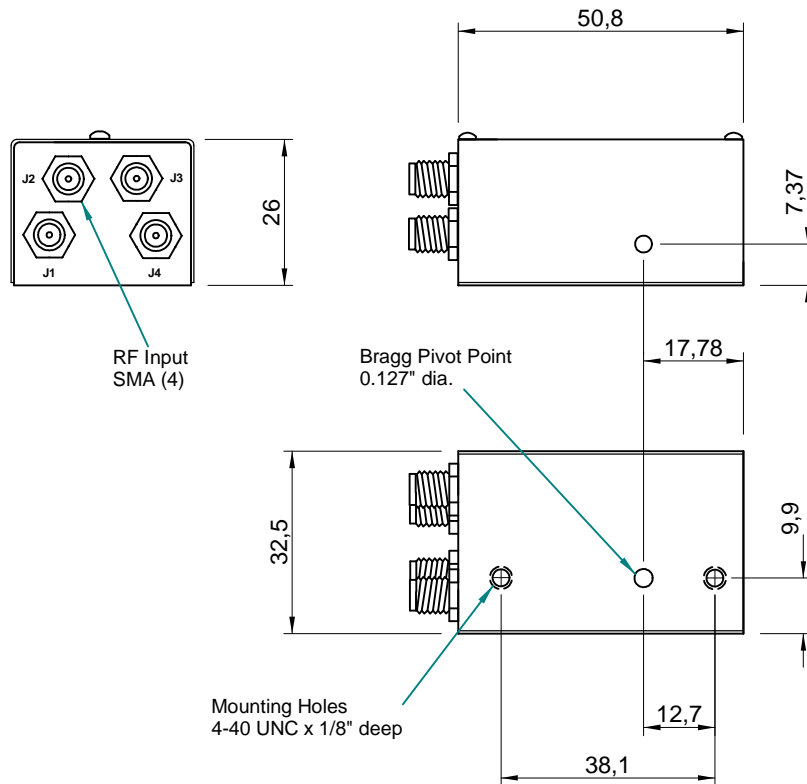
# 1250-BS-926

## NIR Acousto-Optic Deflector



1106

### OUTLINE DRAWING



Dim'n: mm except where marked

### RF DRIVE ELECTRONICS

Tuneable Frequency with modulation : RFA3145-4

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

Tel: (703) 321 8301 Fax: (703) 321 8546

E-mail: [ISOMET@ISOMET.COM](mailto:ISOMET@ISOMET.COM) Web Page: [WWW.ISOMET.COM](http://WWW.ISOMET.COM)

Quality Assured.  
In-house: Crystal Growth,  
Optical Polishing,  
A/R coating, Vacuum Bonding