

M1141-P80L-1, -2

AO Frequency Shifter



1424

The model M1141 is specifically designed for operation as an 80MHz acousto-optic frequency-shifter at 633nm.

FEATURES

Small Size
Low Drive Power
Good Temperature Stability

DRIVERS

Model 552F-L

SPECIFICATIONS

Standard Operating Wavelength:	633nm (Others available)
Interaction Material:	Lead Molybdate (PbMoO ₄)
Active Aperture:	1mm or 2mm
Centre Frequency (f_c)	80MHz
RF Bandwidth (Δf)	20MHz
Input Impedance:	50 Ω (Nominal)
VSWR:	< 1.5 :1 at f_c
Laser Polarization:	Any
Optical Power:	< 2W

PERFORMANCE

Wavelength:	633 nm	
RF Drive Power:	-P80L-1 < 0.6 W	-P80L-2 <1W
Bragg Angle (@ 80MHz)	6.98 mrad	
Beam Separation (@ 80 MHz):	13.95 mrad	
Diffraction Efficiency	≥80% min, >85% typ.	
Static Insertion loss	<3% max, < 2% typ.	

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ISOMET CORP, 10342 Battlevue Parkway, Manassas, VA 20109, USA.

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

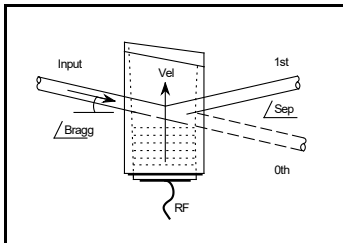
E-mail: ISOMET@ISOMET.COM Web Page: WWW.ISOMET.COM

Quality Assured.

In-house: Crystal Growth,

Optical Polishing,

A/R coating, Vacuum Bonding



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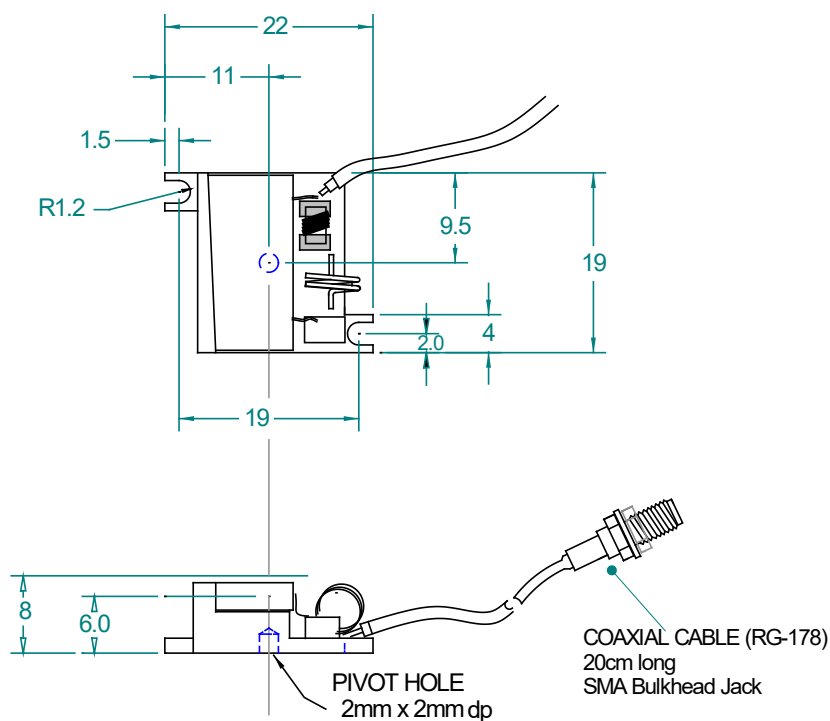


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OUTLINE DRAWING

Dimensions: mm

Case material: Aluminium



Notes:

Coax cable terminated in SMA bulkhead female connector.
Other connector type and cable lengths available.

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