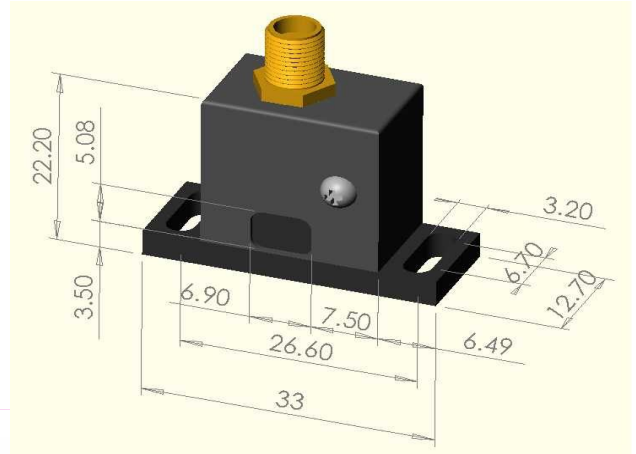


AO Frequency Shifter

- *low power consumption*
- *compact size*
- *high frequency shift*

MODEL # TEF-1200-500-.780 Specifications:

Wavelength of Operation	780 nm
Optical Power Density	5 W/mm ²
Carrier Frequencies*	1200 MHz
Bandwidth (3 dB)	500 MHz
Active Aperture	0.05 mm
Bragg Angle	112 mrad
Separation Angle	223 mrad
Acoustic Velocity (m/sec)	4.2 E+3
Maximum RF Power (Watt)	~1 W
Optical Transmission	95%
Diffraction Efficiency	15-20%
Input Impedance	50 ohms
V.S.W.R.	2.1:1
Optical Polarization	linear (vertical or horizontal)
Case Type	air-cooled



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Fixed Frequency Driver



• *Laboratory version*

MODEL # FF-1200-B2-F1 Specifications:

Carrier Frequency
Frequency Control

1200 MHz

Quartz crystal referenced phase locked loop.

Frequency Accuracy
Frequency Stability
Harmonic Content
Output Power

0.015%

100 ppm

≤ -20 dBc (Max)

1 W nominal. Power is optimized for AO device.

Modulation
Modulation Input
Operating Power
Enclosure

TTL Compatible,

0-5V; 330 ohms input impedance.

90-240 VAC $\pm 10\%$ 50-60Hz, 55W max.

The unit will be packaged in a 7.5 in wide by 3.5 in high by 9.75 in deep instrument case. The rear panel heat sink increases depth to 10.5 inch max. Size is exclusive of connectors.

Environmental

Nominal Laboratory conditions: Max ambient temperature $+35$ deg C; the unit is not sealed against moisture or condensing humidity. A detachable AC line cord is provided.

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