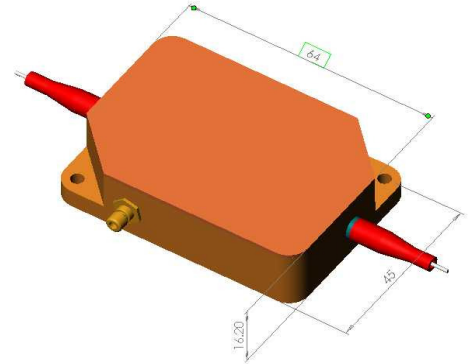


2 Port Fiber Pigtailed AO Frequency Shifter

- *low power consumption*
- *no O-rings*
- *low insertion loss*
- *compact size*
- *PM fibers*



MODEL # AMF-80-4-1550-2FP-FC/APC-0.3

Specifications:

Wavelength of Operation	1550 nm
Optical Range	~50 nm
Maximum Optical Power	200 mW
Frequency Shift	+80.0 MHz or -80.0 MHz
Frequency Shift Range (3 dB)	4 MHz
Extinction Ratio	50 dB
Acoustic Velocity (m/sec)	2.5E+3
Maximum RF Power (Watt)	<0.5 W
Input Impedance	50 ohms
V.S.W.R.	2.1:1
Optical Polarization	Linear
Case Type	2 Port Fiber Optically Pigtailed
Type of Fiber, Port 1 & 2	8 μ m core, 125 μ m cladding SM PM
PER	16-19 dB
Fiber Connector Type	FC
Polishing of the Fiber End	APC
Fiber Length	0.3 m
Fiber Jacket Type	900 μ m OD
Back Reflection*	40 dB
Total Insertion Loss**	First Order 2.2-2.5 dB at the center wavelength 3.5 dB at the edges.

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RF Driver



• laboratory version

MODEL # FFF-80-B2-F0.5-ER50 Specifications:

Carrier Frequency	80 MHz
Frequency Control	Quartz crystal referenced phase locked loop.
Frequency Accuracy	0.015%
Frequency Stability	100 ppm
Harmonic Content	≤ -20 dBc (Max)
Output Power	0.5 W nominal. Power is optimized for AO device.
Modulation	TTL Compatible; DC-8 MHz.
Modulation Input	0-5V; 330 Ω Input Impedance.
Operating Power	90-240 VAC +/-10% 50-60Hz, 55W max.
Enclosure	The unit will be packaged in a 7.5 in wide by 3.5 in high by 8.75 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.
Option ER50	50 dB amplitude modulation extinction ratio. System extinction ratio of ~43 dB.

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