

## RF Drivers - Fixed Frequency Drivers -



OEM Version

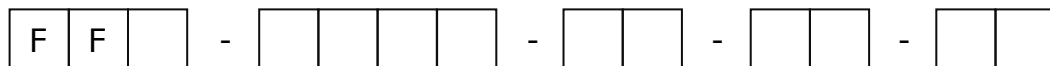


Laboratory Version

### Instruction for Fixed Frequency RF Drivers

Brimrose offers a large variety of RF Drivers compatible with our Acousto-Optic components. The following instructions will help you choose and pick the proper fixed frequency driver for your application. If there are any questions please contact Brimrose Corporation of America.

#### Fixed Frequency Driver Guide:



Applications

Frequency

Modulation

RF Power

Options

A-Modulator  
B-Deflector  
C-Combination modulator  
D-Dual or multiple frequencies  
E-Multiple channel unit  
F-Optical frequency shifter  
G-Custom driver  
H-Q-switch  
I-Tunable filter

10MHz-1700MHz  
X= customer specified

A-CW  
B1-Analog amplitude  
B2-Digital amplitude  
C1-Analog frequency  
C2-Digital frequency  
D-Dual fixed frequency  
S-Single sideband  
\*-Any of the above features may be combined.

Fo-Fixed optimized to cell's performance  
Vo-Variable optimized to cell's performance  
Fn-Fixed, 'n' watts nominal  
Vn-Variable from 0.1'n' to 'n' watts

DC-Custom supplied DC 'n' voltage  
B-BNC connectors in place of SMAs  
E-200-250VAC 50-400Hz  
M-O.E.M. or customer specified enclosure or outline

**Brimrose Corporation of America**

## Fixed Frequency Driver Specifications

Types	Laboratory Version	OEM Version
<b>Model #</b>	FFA-____*-(B1 or B2)-F____**-ER50	
<b>Carrier Frequency</b>	____MHz	
<b>Frequency Control</b>	Quartz crystal referenced phase locked loop	
<b>Harmonic Content</b>	≤ - 15 dBc	
<b>Frequency Stability</b>	0.0015% minimum after 15 minute warm-up	
<b>Output Power **</b>	Power is optimized for peak efficiency with supplied AO device.	
<b>Modulation B1 Modulation Input</b>	Analog Amplitude; DC-50 MHz 0 - 1 V, 50 Ω input impedance	
<b>Modulation B2 Modulation Input</b>	TTL Compatible; DC-50 MHz 0 - 5 V, 330 Ω input impedance	
<b>Operating Power</b>	90-240 VAC +/-10% 50-60Hz, 55W max.	+24 VDC, 1A
<b>Enclosure</b>	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.	OEM Enclosure. The unit will be packaged in a 4 in wide by 1.6 high by 4 in deep instrument case. Size is exclusive of connectors.
<b>Environmental</b>	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.	Max temperature: 0-35 deg C ambient. Mounting flange must be heat sunk. Temperature at the mounting flange must not exceed 60 deg C.
<b>Option ER50</b>	50 dB amplitude extinction ratio for B2 modulations. System extinction ratio will be ~ 43 dB.	

\* Carrier Frequency is defined by AO Modulator

\*\* Output Power to match the AOM requirement

If there are any questions please contact Brimrose at [office@brimrose.com](mailto:office@brimrose.com).