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RF Drivers
- Fixed Frequency Drivers -



OEM Version



Laboratory Version

Instruction for Fixed Frequency RF Drivers

Brimrose offers a large verity 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:

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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

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Fixed Frequency Driver Specifications

Types	Laboratory Version	OEM Version
Model #	FFA-____*-(B1 or B2)-F____**-ER50	
Carrier Frequency	____MHz	
Frequency Control	Quartz crystal referenced phase locked loop	
Harmonic Content	≤ - 15 dBc	
Frequency Stability	0.0015% minimum after 15 minute warm-up	
Output Power **	Power is optimized for peak efficiency with supplied AO device.	
Modulation B1 Modulation Input	Analog Amplitude; DC-50 MHz 0 - 1 V, 50 Ω input impedance	
Modulation B2 Modulation Input	TTL Compatible; DC-50 MHz 0 - 5 V, 330 Ω input impedance	
Operating Power	90-240 VAC +/-10% 50-60Hz, 55W max.	+24 VDC, 1A
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.	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.
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.	Max temperature: 0-35 deg C ambient. Mounting flange must be heat sinked. Temperature at the mounting flange must not exceed 60 deg C.
Option ER50	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

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