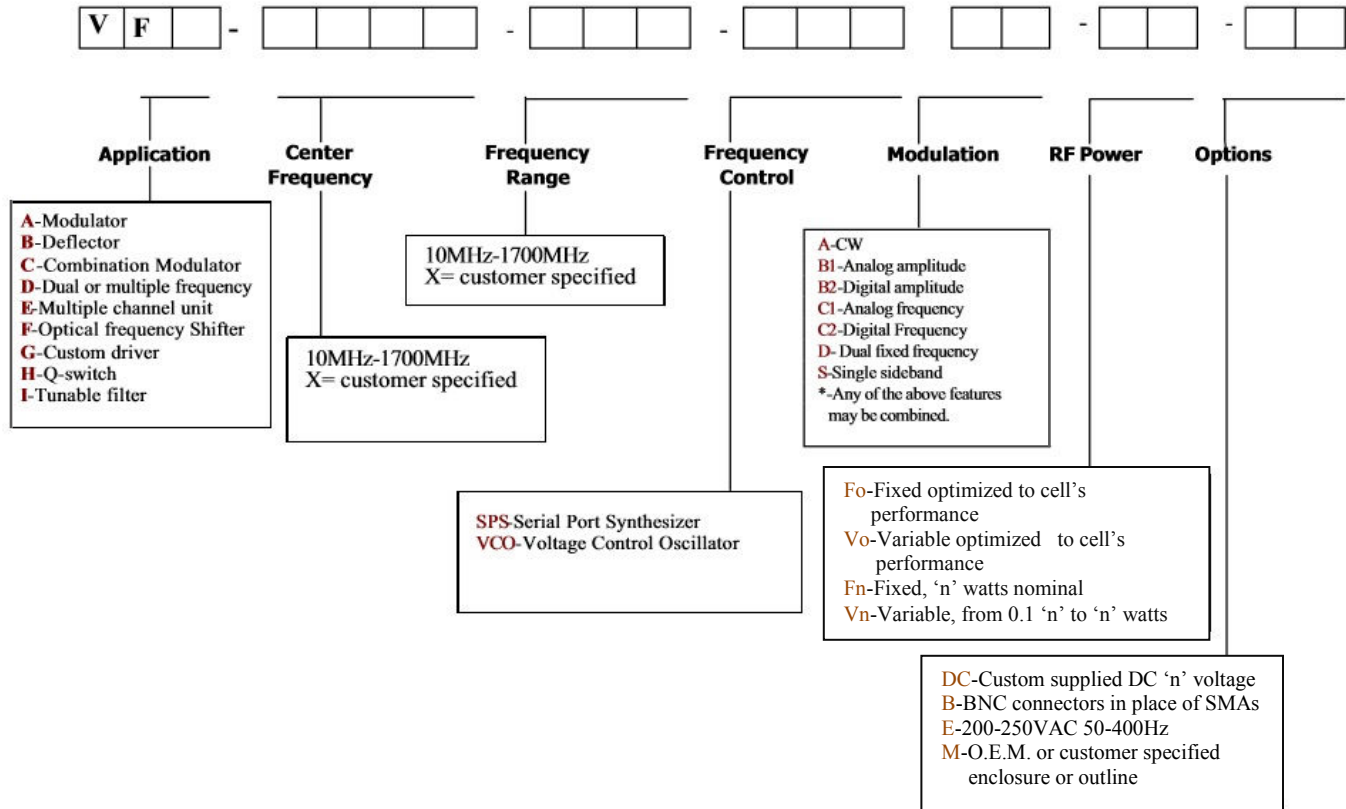# RF Drivers
- Variable Frequency Drivers -

Laboratory Version

Instruction for Variable 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 variable frequency driver for your application. If there are any questions please contact Brimrose Corporation of America.

Variable Frequency Driver Guide:

| V | F | | - | | | | | - | | | | - | | | | | | - | | | - | | |

Application

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

Center Frequency

10MHz-1700MHz
X= customer specified

Frequency Range

10MHz-1700MHz
X= customer specified

Frequency Control

SPS-Serial Port Synthesizer
VCO-Voltage Control Oscillator

Modulation

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.

RF Power

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

Options

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

Variable Frequency Driver Specifications

Driver Model #	VFB-XX-YY-V-A-F2	VFE-XX-YY-V-B1-F2/2Ch
Frequency Range	Corresponding to the AO Device Requirements	Matching the 2-D AOD controlled by application of external tuning voltage
Tuning Voltage	0 - 10 V analog (-2 to +20 VDC no damage)	
Frequency Stability	1% nominal after 15 minute warm-up, constant temperature	
Scanning Speed	50 micro sec from min to max frequency with step change in tuning voltage	
Output Power	Power is optimized for peak efficiency with supplied AO device.	
Modulation Type	Analog Amplitude or TTL Compatible (optional) DC-50 MHz	
Modulation Input	50 Ω; 0-1 V or 330 Ω; 0-5 V	
Operating Power	90-240 VAC ±25% 50-60 Hz	
Enclosure	The unit will be packaged in a 190 mm (7.5 inch) wide by 100 mm (4 inch) high by 220 mm (8.75 inch) deep instrument case. The rear panel heat sink increases the depth to 240 mm (9.75 inches) maximum. The size is exclusive of connectors. A detachable AC line cord and RF cable are provided.	
Environmental	Nominal Laboratory Conditions: The maximum temperature is +35° C. The unit is not sealed against moisture or condensing humidity.	

In addition to the standard product shown above, customer configurations are available for specialized applications.

If there are any questions please contact Brimrose at office@brimrose.com.