

STBR Series RF Drivers for STBR Series AOM

OEM & LAB VERSION RF DRIVERS

- Fixed or Variable Frequency Configuration
- PC-Controlled High Performance RF Frequency Synthesizers
- Quartz Referenced Phase Locked Loop
- TTL or Analog Amplitude Modulation or Combination of Both
- lacktrian
- High Extinction Ratio >70 dB with TTL
- Fast Modulation Speed <10 nsec
- Compact Sizes



1. Fixed Frequency RF Drivers

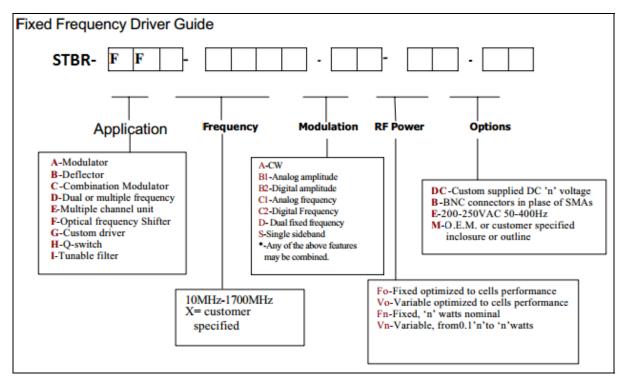
Typical fixed frequency RF drivers configurations:

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





2. Variable Frequency RF Drivers



Model	STBR-VFB-XX-YY-V-A-F2	STBR-VFE-XX—YY-V-A-F2/2CH
Output Frequency Range	Corresponding to 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 Accuracy	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 optimised for peak efficiency with supplied AO device	
Modulation Type	Analog amplitude or TTL compatible (optional)	Analog Amplitude; DC-10MHz independent for each channel
Modulation Input	50 ohm; 0-1V OR 330ohm; 0-5V	50 ohm; 0-1V
Operating Power	90-240 VAC, +-25%, 50-60Hz	
Enclosure	The unit will be packaged in a 190mm (7.5inch) wide by 90mm (4inch) high by 220,, (8,75inch) deep instrument case. The rear panel heat sink increases the depth to 240mm(9.75inches) maximum. The size is exclusive of connectors	
Environmental	Nominal Lab conditions: Max temperature is +35 degC. The unit is not seals against moisture or condensing humidity	



