

## 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
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- 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



