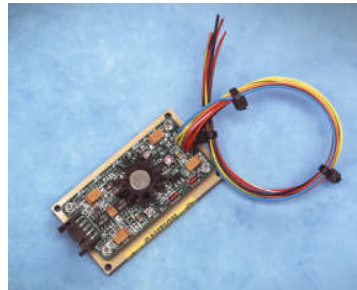


FEATURES

- All Miniature Oscillators and Filters
- MLY Series "Mini" Oscillators
- MLFI Series "Mini" Filters
- Compensation for Temperature Drift
- Voltage Regulators for Improved Stability
- 0 to 10 Volt Tuning Resolution
- Remote Oscillator/Driver Location


DESCRIPTION

All Micro Lambda Series Miniature YIG Devices are available with remotely located analog driver circuits. These drivers eliminate the need for customers to design or develop their own circuits and sophisticated test and alignment procedures. These remote drivers can be aligned at Micro Lambda's factory to ensure peak performance. Alignment and compensation with the particular YIG Device can be maximized down to the component level.

All drivers in this series provide input voltage regulators and compensation circuits to improve frequency drift. All voltages required by the YIG Device, except the heater inputs are supplied by the voltage regulators.

COMMERCIAL ANALOG DRIVERS	0.5-10 GHz MINIATURE DEVICE, ANALOG REMOTE SERIES
DRIVER INPUT & RESPONSE	SPECIFICATION (0 to + 65 deg. C)
Main Coil Driver Function	
Tuning Command	0 Volts = Lowest Frequency 10 Volts = Highest Frequency
Tuning Accuracy (Note 1) (excluding hysteresis)	YIG Device Accuracy +2 MHz
Tuning Speed	5 mS for 1 GHz step to within +/-10 MHz.
Sweep Speed (0 - 10 Volt Ramp)	50 mS Up / 10 mSec 1 GHz retrace, Linearity @ 0.1 %
Main Driver Inputs	
Supply Voltage & Current	
+15V +/- .5V	Device Tuning current @ Max. Frequency +50 mA
-15V +/- .5V	+50 mA, Max. (-5V YTO Current, if required)
Supply Voltage Pushing	+/- 0.2 MHz Max. @ +/- .5 Vdc (2-3000 kHz)
Supply Voltage Ripple	10 mV Ripple Pk-Pk from 2 kHz to 3 MHz
Ground	Chassis Ground
Heater Voltage Inputs (Note 2)	750 mA Surge for 2 Sec., 150 mA Steady State
+24 Vdc +/- 4 Vdc	Polarity Independent: ±12 Vdc or ±15 Vdc acceptable
Input Impedance	10 k-Ohms
Common Rejection Mode	> 40 dB (Twisted Pair Leads)

Note 1: Accuracy Includes Temperature Drift & Linearity.
2. See particular YIG Device specification for heater current requirements.

