



FEATURES

- MLPM, MLPW & MLPF Series PM YTO's
- ± 10 Volt Tuning Resolution
- Remote Oscillator/Driver Location
- High Speed FM Sweep
- Phase Locking Port



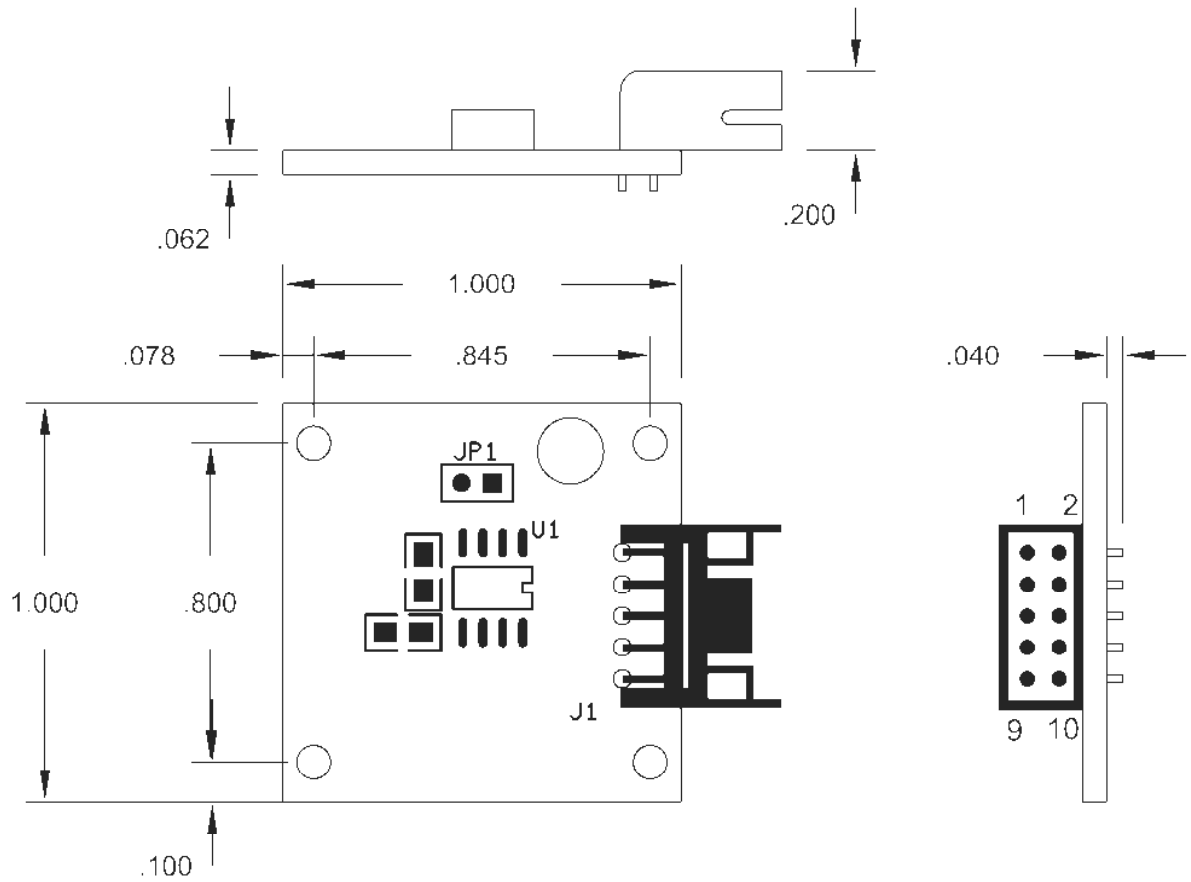
DESCRIPTION

All Micro Lambda Permanent Magnet Oscillators are available with remotely located voltage controlled FM coil driver circuits. These drivers eliminate the need for customers to design or develop their own driver circuits and sophisticated test and alignment procedures.

These drivers are the perfect complement to Micro Lambda's series of remote digital or analog main coil drivers. They also make phase locking simplistic when incorporated with PLL circuitry.

COMMERCIAL REMOTE	YIG OSCILLATOR REMOTE FM COIL SERIES	
DRIVER INPUT & RESPONSE	SPECIFICATION	(0 to + 65 deg. °C)
Driver Inputs		
Supply Voltage & Current (Note 1)		
+12 to +15 Vdc	Oscillator Current and +100 mA typ. at full positive FM deviation	
-12 to -15 Vdc	Oscillator Current and -100 mA typ. at full negative FM deviation	
Supply Voltage Pushing	± 100 KHz Max. @ ± .5 Vdc	
Supply Voltage Ripple	10 mV Ripple Pk-Pk from 2 kHz to 3 MHz	
Ground	Chassis Ground	
Heater Voltage (If required)	300 mA Surge, 25 to 50 mA Steady State depending on Input Voltage	
+15 to +28 Vdc		
FM Tuning Voltage (Note 4)	± 10 V	
FM Coil Bandwidth	Per Oscillator Device Type	
FM Sweep Speed (Note 2)	10 uSec up, 1 uSec Retrace, Triangle Waveform for ± 25 MHz deviation, <1% Linearity	
Input Impedance	1 k-Ohms	
Sensitivity (Note 3)	± 2.5 MHz/V	
Frequency Deviation (Note 3)	± 25 MHz	
Outline Drawing	51-006	

Note 1. Input voltage depends on Oscillator type.
 2. Sweep Speed adjustable for particular applications - contact factory.
 3. Voltage sensitivity and frequency deviation adjustment available, sensitivity stated is average over frequency range.
 4. Special Tuning Voltages available - contact factory.



J1 CONNECTOR

(2M DUAL ROW TERMINAL STRIP)

DIGIKEY P/N # : H2145-ND

MATING WITH # : H2031-ND

HIROSE P/N # : DF11-10DP-2DS

MATING WITH # : DF11-10DS-2D

PIN	FUNCTIONS
1	FM V-IN ($\pm 10V$)
2	FM RTN (GND)
3	YIG - FM COIL
4	YIG +FM COIL
5	-5V OUT
6	N/C
7	N/C
8	+12V TO +15V
9	$\pm 12V$ RTN (GND)
10	-12V TO -15V

- NOTES:**
1. JP1 = CLOSED
 2. RECOMMEND MOUNTING HARDWARE :
 - (4) #1-72 x 5/16 " SOCKET HEAD SCREWS
 - (4) #1 SPLIT WASHERS
 - (4) .125 #2 NYLON THRU HOLE SPACERS
 3. -5V OUT TO SUPPLY BIPOLAR YIG DEVICES, 50mA MAX.

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MICRO LAMBDA WIRELESS, INC.

FM COIL REMOTE DRIVER

REV	DATE	BY	APP
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