

FEATURES

- 500 MHz to 50 GHz
- Low-Profile Package
- Input Regulators for Improved Stability
- Versus Power Supply Variations
- 16 Bit Tuning Resolution


DESCRIPTION

MICRO LAMBDA YIG Filters, model types MLFP, MLFR, MLFRD and MLUN-Series are available with integrated serial driver circuits.

MICRO LAMBDA drivers eliminate the need for customers to design or develop their own driver circuits and sophisticated test and alignment procedures. Integrating a driver at MICRO LAMBDA's factory ensures that peak performance will be achieved at the time of manufacture. Alignment and compensation with the particular YIG filter can be maximized down to the component level.

All drivers in this series provide input voltage regulators, and compensation circuits to improve frequency drift.

COMMERCIAL SERIAL DRIVERS

DRIVER INPUT & RESPONSE
SPECIFICATION (0 to +65 deg. C)

Tuning Command	Start Word (all 0's) = Lowest Frequency Stop Word (all 1's) = Highest Frequency
Tuning Resolution	16 BIT Positive Logic (Fmax-Fmin)/65,535 Bit Resolution
Tuning Accuracy (excluding hysteresis)	See Table
Tuning Speed	5 mS for 1 GHz step to within ± 10 MHz.
Main Driver Inputs	
Supply Voltage & Current (P1-6) (P1-5)	+15 V \pm .5 V @ Filter Tuning Current +50 mA, Max. -15 V \pm .5 V @ 50 mA
Supply Voltage Pushing Supply Voltage Ripple Ground (P1-4, 12)	\pm 100 kHz, Max. @ \pm .5 Vdc 10 mV Ripple Pk-Pk from 2 kHz to 3 MHz Chassis Ground
YIG Heater Voltage & Current (P1-7, 8)	+24 Vdc \pm 4 Vdc @ 300 - 750 mA surge for 2 seconds, 100 - 150 mA steady state depending on filter type. Polarity independent : ± 12 Vdc or ± 15 Vdc acceptable
Digital Interface (P1-1, 2, 3, 4)	The MLWI digital driver interface is a standard 3-wire connection compatible with SPI/QSPI/MICROWIRE interfaces. The 3-wire serial interface will operate in a 5V or 3.3V logic system. The chip-select input (SELECTn) frames the serial data loading at the data input pin (DATA). Immediately following SELECTn's high-to-low transition, the data is shifted synchronously and latched into the input register on the rising edge of the serial-clock input (CLOCK). After 16 data bits have been loaded into the serial input register, it transfers its contents to the DAC latch on SELECTn's low-to-high transition (Figure 2). Note that if SELECTn does not remain low during the entire 16 CLOCK cycles, data will be corrupted. In this case, reload the DAC latch with a new 16-bit word.

SM-SERIES — CONT.

YIG Tuned Filters with Commercial Serial Drivers

Power-On Reset

The MLWI digital driver has a power-on reset circuit to set the DAC's output to OV(F-min) in unipolar mode when VDD is first applied. This ensures that unwanted DAC output voltages will not occur immediately following a system power-up, such as after power loss.

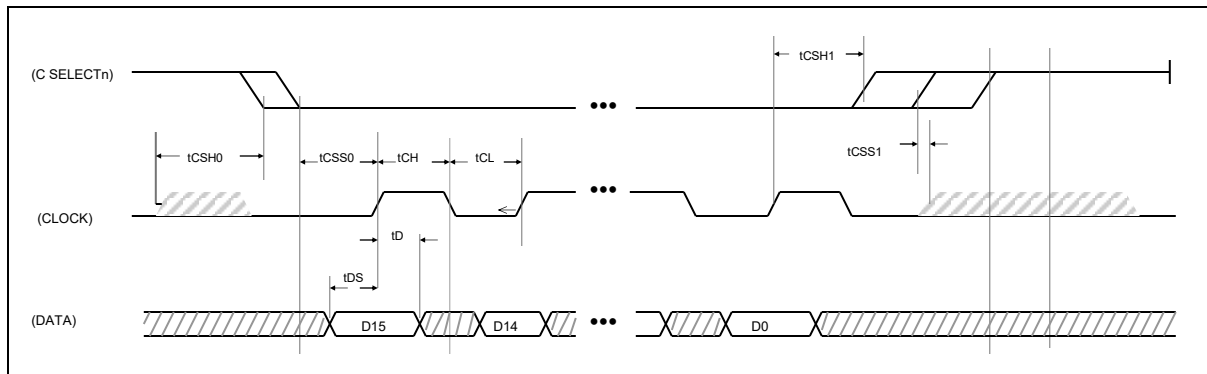


Figure 1. Timing Diagram

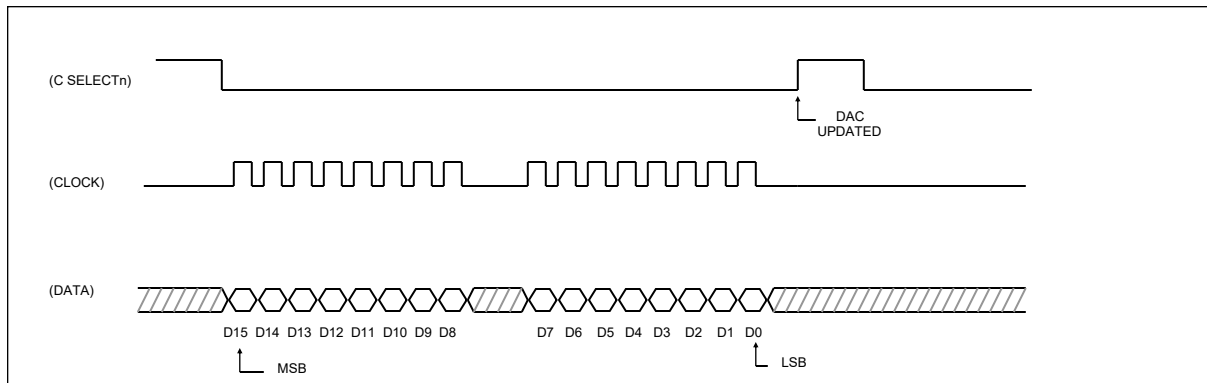


Figure 2. 3-Wire Interface Timing Diagram

TIMING CHARACTERISTICS

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
CLOCK Frequency	fCLK				10	MHz
CLOCK Pulse Width High	tCH		45			ns
CLOCK Pulse Width Low	tCL		45			ns
CSn Low to CLOCK High Setup	tCSS0		45			ns
CSn High to CLOCK High Setup	tCSS1		45			ns
CLOCK High to CSn Low Hold	tCSH0		30			ns
CLOCK High to CSn High Hold	tCSH1		45			ns
DATA to CLOCK High Setup	tDS		40			ns
DATA to CLOCK High Hold	tDH		0			ns
VDD High to CSn Low (power-up delay)				20		μs



Bandpass Filters with Positive Input Serial Drivers (0° C to +65° C)

MODEL NUMBER	# Stages	Frequency GHz	3 dB Bandwidth (MHz)	Accuracy (MHz) *	Current +15V (mA)	Current -15V (mA)	Outline Drawing
MLFP-20520SM	2	.50 to 2.0	20	+/- 10	350	50	99-0021-171
MLFP-22018SM	2	2.0 to 18.0	25	+/- 20	1050	50	99-0021-171
MLFP-22026SM	2	2.0 to 26.5	20	+/- 35	1200	50	99-0021-172
MLFP-40520SM	4	.50 to 2.0	20	+/- 10	350	50	99-0021-171
MLFP-42008SM	4	2.0 to 8.0	20	+/- 20	550	50	99-0021-171
MLFP-42018SM	4	2.0 to 18.0	40	+/- 20	1050	50	99-0021-171
MLFP-42026SM	4	2.0 to 26.5	25	+/- 35	1200	50	99-0021-172
MLFP-46018SM	4	6.0 to 18.0	100	+/- 20	1050	50	99-0021-171
MLFP-48018SM	4	8.0 to 18.0	400	+/- 25	1050	50	99-0021-171
MLFP-43040SM	4	3.0 to 40.0	30	+/- 50	1450	50	99-0021-180
MLFP-43044SM	4	3.0 to 44.0	30	+/- 60	1550	50	99-0021-180
MLFP-43050SM	4	3.0 to 50.0	30	+/- 90	2100	50	99-0021-173
MLFP-47040SM	4	7.0 to 40.0	35	+/- 50	1450	50	99-0021-180
MLFP-41840SM	4	18.0 to 40.0	50	+/- 50	1450	50	99-0021-180
MLFP-62018SM	6	2.0 to 18.0	40	+/- 20	1050	50	99-0021-179
MLFP-62026SM	6	2.0 to 26.5	30	+/- 35	1350	50	99-0021-181
MLFP-66018SM	6	6.0 to 18.0	100	+/- 20	1050	50	99-0021-179
MLFP-68018SM	6	8.0 to 18.0	500	+/- 25	1050	50	99-0021-179
MLFP-70520SM	7	0.5 to 2.0	20	+/-10	350	50	99-0021-179
MLFP-72018SM	7	2.0 to 18.0	40	+/- 35	1050	50	99-0021-179
MLFP-76018SM	7	6.0 to 18.0	500	+/- 45	1050	50	99-0021-179
MLFP-78020SM	7	8.0 to 20.0	500	+/- 45	1150	50	99-0021-179
MLFP-72026SM	7	2.0 to 26.5	30	+/- 35	1350	50	99-0021-181
MLFP-76018LSM	7-L	6.0 to 18.0	500	+/- 45	1050	50	99-0021-179
MLFP-78018LSM	7-L	8.0 to 18.0	500	+/- 45	1050	50	99-0021-179
MLFP-78020LSM	7-L	8.0 to 20.0	500	+/- 45	1150	50	99-0021-179

* Accuracy includes frequency drift and linearity errors over the temperature range.



Band Reject Filters with Positive Input Serial Drivers (0° C to +65° C)

Model Number	Frequency GHz	3 dB Bandwidth (MHz)	40 dB Bandwidth (MHz)	Accuracy (MHz) *	Current +15 V (mA)	Current -15 V (mA)	Outline Drawing
MLFR-0102SM	1.0 to 2.0	100	10	+/- 5	250	50	99-0021-177
MLFR-0204SM	2.0 to 4.0	125	15	+/- 7	350	50	99-0021-177
MLFR-0408SM	4.0 to 8.0	150	20	+/- 10	550	50	99-0021-177
MLFR-0812SM	8.0 to 12.4	150	25	+/- 12	750	50	99-0021-177
MLFR-1218SM	12.4 to 18.0	150	25	+/- 12	1050	50	99-0021-177
MLFR-0502SM	0.50 to 2.0	100	5 @ 30dB	+/- 5	250	50	99-0021-177
MLFR-0206SM	2.0 to 6.0	150	20	+/- 10	450	50	99-0021-177
MLFR-0208SM	2.0 to 8.0	150	15	+/- 14	550	50	99-0021-177
MLFR-0212SM	2.0 to 12.0	150	10	+/- 15	750	50	99-0021-177
MLFR-0218SM	2.0 to 18.0	150	10	+/- 25	1050	50	99-0021-177
MLFR-0220SM	2.0 to 20.0	150	5	+/- 25	1050	50	99-0021-177
MLFR-0418SM	4.0 to 18.0	150	10	+/- 20	1050	50	99-0021-177
MLFR-160418SM	4.0 to 18.0	150	25	+/- 20	1050	50	99-0021-177
MLFR-0618SM	6.0 to 18.0	150	25	+/- 18	1050	50	99-0021-177
MLFR-160618SM	6.0 to 18.0	150	25	+/- 18	1050	50	99-0021-177
MLFR-0818SM	8.0 to 18.0	150	35	+/- 18	1050	50	99-0021-177
MLFR-160818SM	8.0 to 18.0	150	35	+/- 18	1050	50	99-0021-177

Dual Channel Band Reject Filters with Positive Input Serial Drivers (0° C to +65° C)

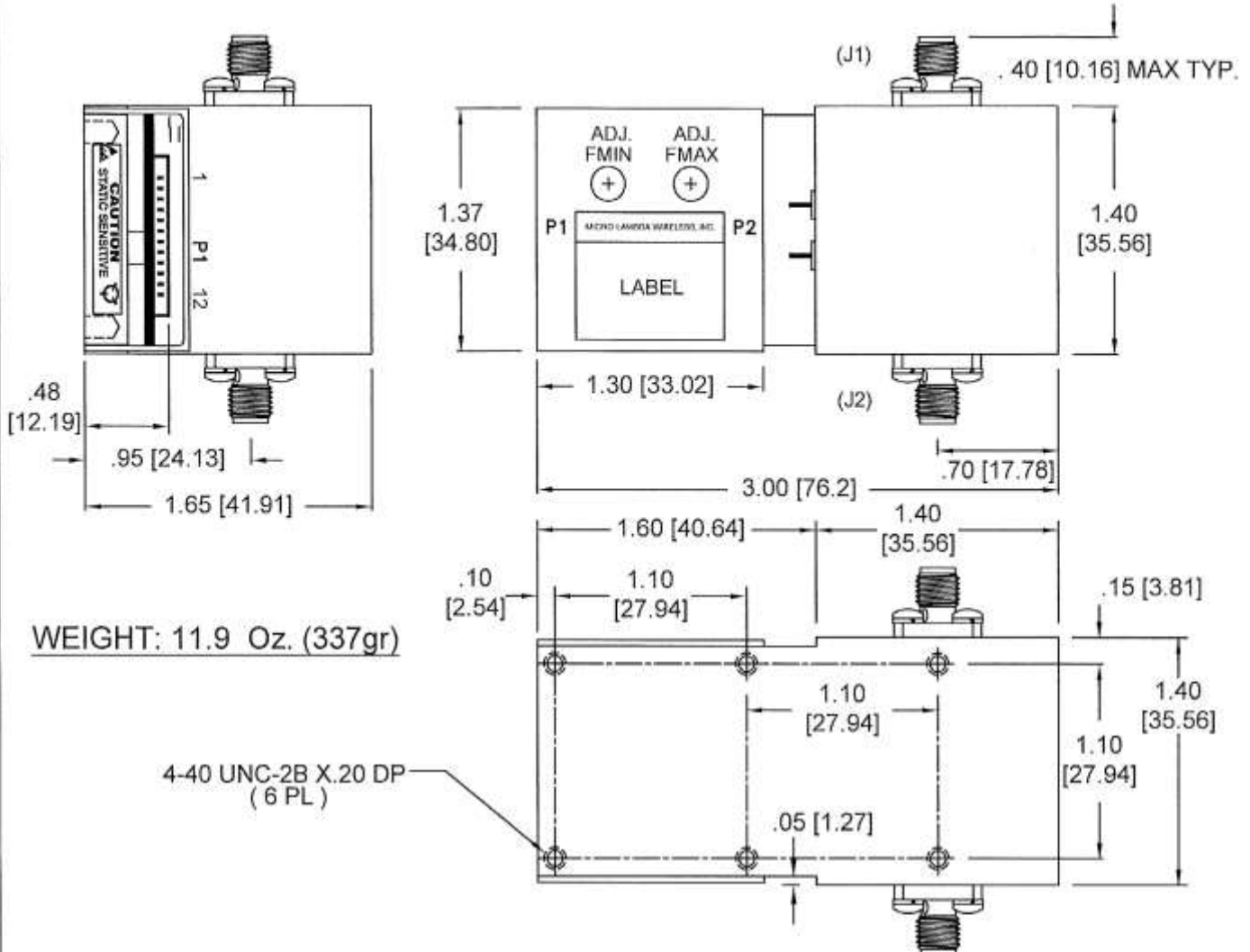
MLFRD-0206SM	2.0 to 6.0	120	5	+/- 10	450	50	**
MLFRD-0208SM	2.0 to 8.0	120	5	+/- 12	550	50	**
MLFRD-0618SM	6.0 to 18.0	100	15	+/- 20	1050	50	**
MLFRD-0818SM	8.0 to 18.0	100	15	+/- 18	1050	50	**

Ultra Notch Band Reject Filters with Positive Input Serial Drivers (0° C to +65° C)

Model Number	Frequency GHz	3 dB Bandwidth (MHz)	60 dB Bandwidth (MHz)	Accuracy (MHz) *	Current +15 V (mA)	Current -15 V (mA)	Outline Drawing
MLUN-0305SM	.35 to .52	50	4 @ 30dB	+/- 2	100	50	99-0021-175
MLUN-0502SM	.50 to 2.0	80	5 @ 40dB	+/- 5	250	50	99-0021-175
MLUN-0206SM	2.0 to 6.0	120	17	+/- 10	450	50	99-0021-175
MLUN-0618SM	6.0 to 18.0	175	35	+/- 18	1050	50	99-0021-176
MLUN-0218SM	2.0 to 18.0	175	5	+/- 25	1050	50	99-0021-176

* Accuracy includes frequency drift and linearity errors over the temperature range.

** Contact Factory



WEIGHT: 11.9 Oz. (337gr)

4-40 UNC-2B X.20 DP
(6 PL)

INPUT

PIN	ANALOG MODEL FUNCTION	P1 SERIAL MODEL FUNCTION
1	CONTROL-V 0-10V	CLOCK (SCLK)
2	CONTROL RETURN	DATA (MOSI)
3	N/C	SELECTn (CS)
4	GROUND	GROUND
5	-V SUPPLY	-V SUPPLY
6	+V SUPPLY	+V SUPPLY
7	HEATER 1	HEATER 1
8	HEATER 2	HEATER 2
9	N/C	N/C
10	N/C	N/C
11	N/C	N/C
12	GROUND	GROUND

FILTER RF CONNECTIONS

CONN.	TYPE	FUNCTION
J1	SMA	RF INPUT
J2	SMA	RF OUTPUT

NOTES:

- RECOMMENDED WIRE SIZE = 24 GAUGE
- P1 CONNECTION:
 - MOLEX PART # : 5040501291(1.5MM)
 - MATING WITH # : 5040511201
 - CRIMP CONTACT : 5040520098
- DIMENSIONS ARE IN INCHES
- () DIMENSIONS ARE IN MM.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ARE: FRACTIONS DECIMALS ANGLES

CONTRACT NO.	
APPROVALS	DATE
DRAWN N. NGUYEN	5/19/2022
CHECKED DS	5/24/22
ISSUED	

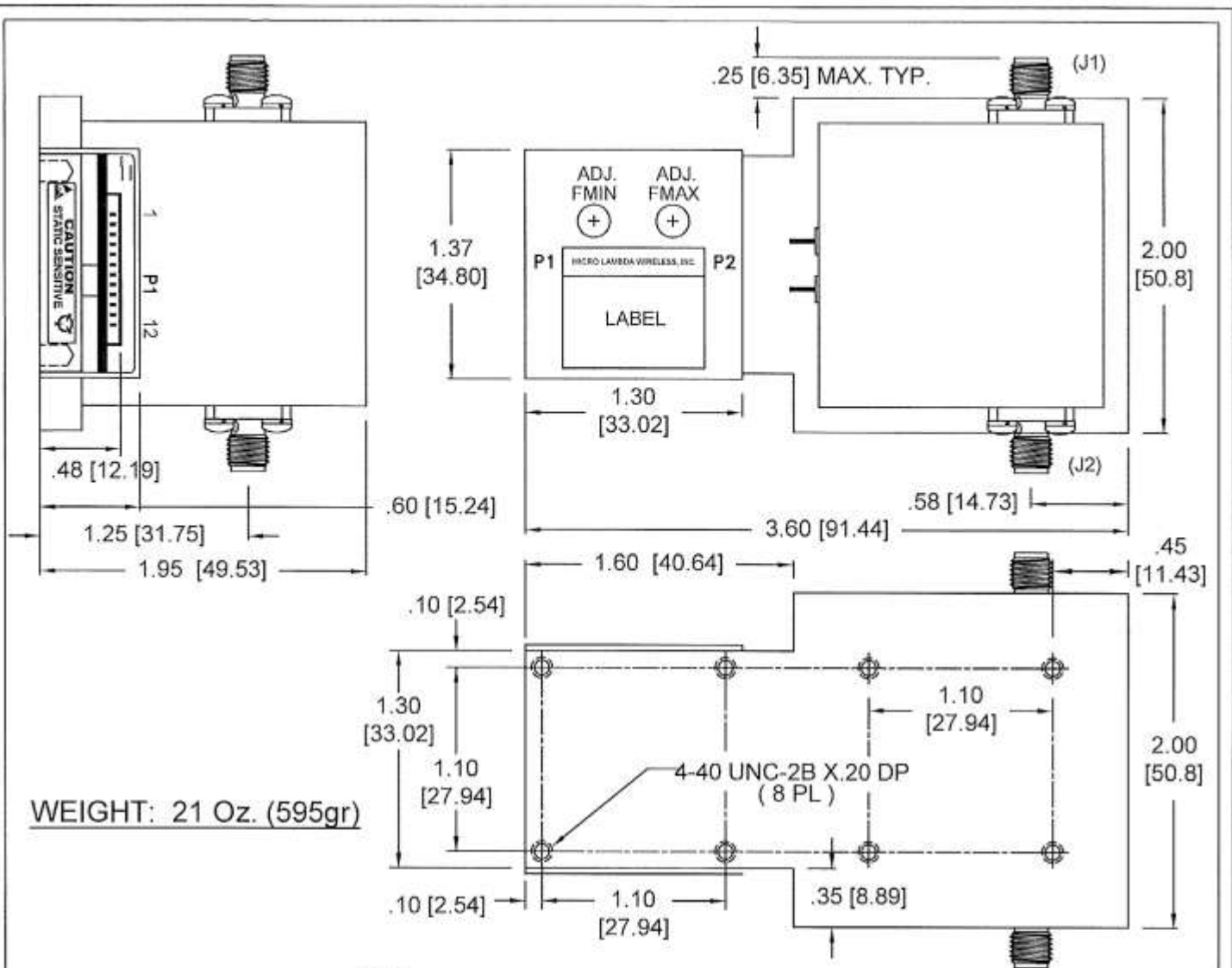


MICRO LAMBDA WIRELESS, INC.

ANALOG OR SERIAL DRIVER WITH 1.4" BP FILTER

SIZE	CAGE No ORN63	DWG. No	99 - 0021 - 171	REV	A
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DO NOT SCALE DRAWING



WEIGHT: 21 Oz. (595gr)

INPUT

PIN	ANALOG MODEL FUNCTION	P1 SERIAL MODEL FUNCTION
1	CONTROL-V 0-10V	CLOCK (SCLK)
2	CONTROL RETURN	DATA (MOSI)
3	N/C	SELECTn (CS)
4	GROUND	GROUND
5	-V SUPPLY	-V SUPPLY
6	+V SUPPLY	+V SUPPLY
7	HEATER 1	HEATER 1
8	HEATER 2	HEATER 2
9	FM +/- 10V	N/C
10	FM RETURN	N/C
11	FAST/SLOWn	N/C
12	GROUND	GROUND

FILTER RF CONNECTIONS

CONN.	TYPE	FUNCTION
J1	SMA	RF INPUT
J2	SMA	RF OUTPUT

NOTES:

- RECOMMENDED WIRE SIZE = 24 GAUGE
- P1 CONNECTION:
 - MOLEX PART # : 5040501291(1.5MM)
 - MATING WITH # : 5040511201
 - CRIMP CONTACT : 5040520098
- DIMENSIONS ARE IN INCHES
- [] DIMENSIONS ARE IN MM.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCE ARE:
FRACTIONS DECIMALS ANGLES
• .XX ± .02
• .XXX ± .015

CONTRACT NO.

APPROVE	DATE
DRAWN N.NGUYEN	9/19/2022
CHECKED Ds	9/14/22
ISSUED	

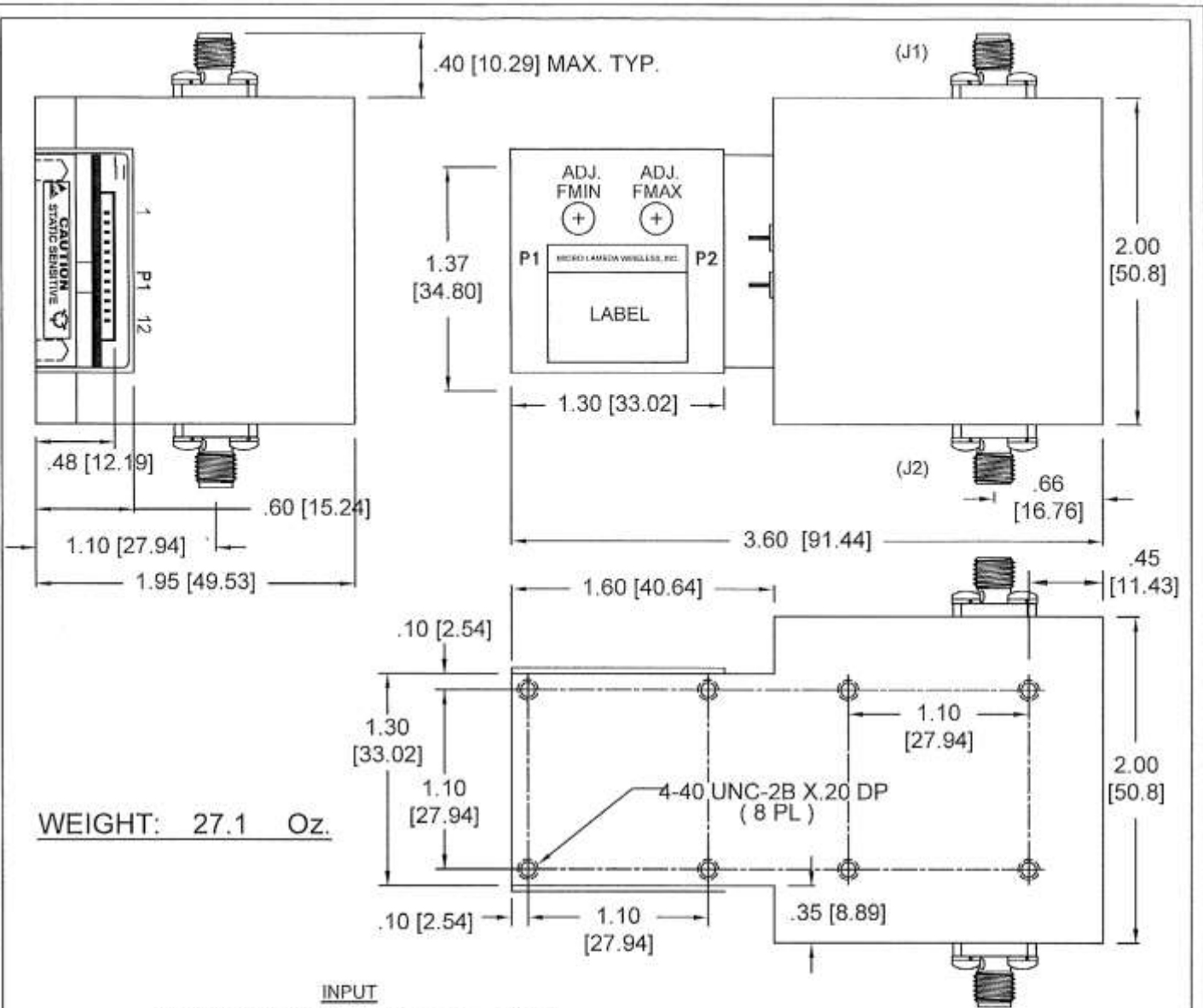


MICRO LAMBDA WIRELESS, INC.

ANALOG OR SERIAL DRIVER WITH 1.7" BP / FILTER

SIZE	CAGE No	DWG. NO.	REV.
	0RN63	99 - 0021 - 181	A

DO NOT SCALE DRAWING



WEIGHT: 27.1 Oz.

INPUT

PIN	FUNCTION	P1 ANALOG MODEL	P1 SERIAL MODEL
1	CONTROL-V 0-10V	CLOCK (SCLK)	CLOCK (SCLK)
2	CONTROL RETURN	DATA (MOSI)	DATA (MOSI)
3	N/C	SELECT _n (CS)	SELECT _n (CS)
4	GROUND	GROUND	GROUND
5	-V SUPPLY	-V SUPPLY	-V SUPPLY
6	+V SUPPLY	+V SUPPLY	+V SUPPLY
7	HEATER 1	HEATER 1	HEATER 1
8	HEATER 2	HEATER 2	HEATER 2
9	FM +/- 10V	N/C	N/C
10	FM RETURN	N/C	N/C
11	FAST/SLOW _n	N/C	N/C
12	GROUND	GROUND	GROUND

FILTER RF CONNECTIONS

CONN.	TYPE	FUNCTION
J1	K-CONN; FEM.	RF INPUT
J2	K-CONN; FEM.	RF OUTPUT

NOTES:

- RECOMMENDED WIRE SIZE = 24 GAUGE
- P1 CONNECTION:
 - MOLEX PART # : 5040501291(1.5MM)
 - MATING WITH # : 5040511201
 - CRIMP CONTACT : 5040520098
- DIMENSIONS ARE IN INCHES
- () DIMENSIONS ARE IN MM.

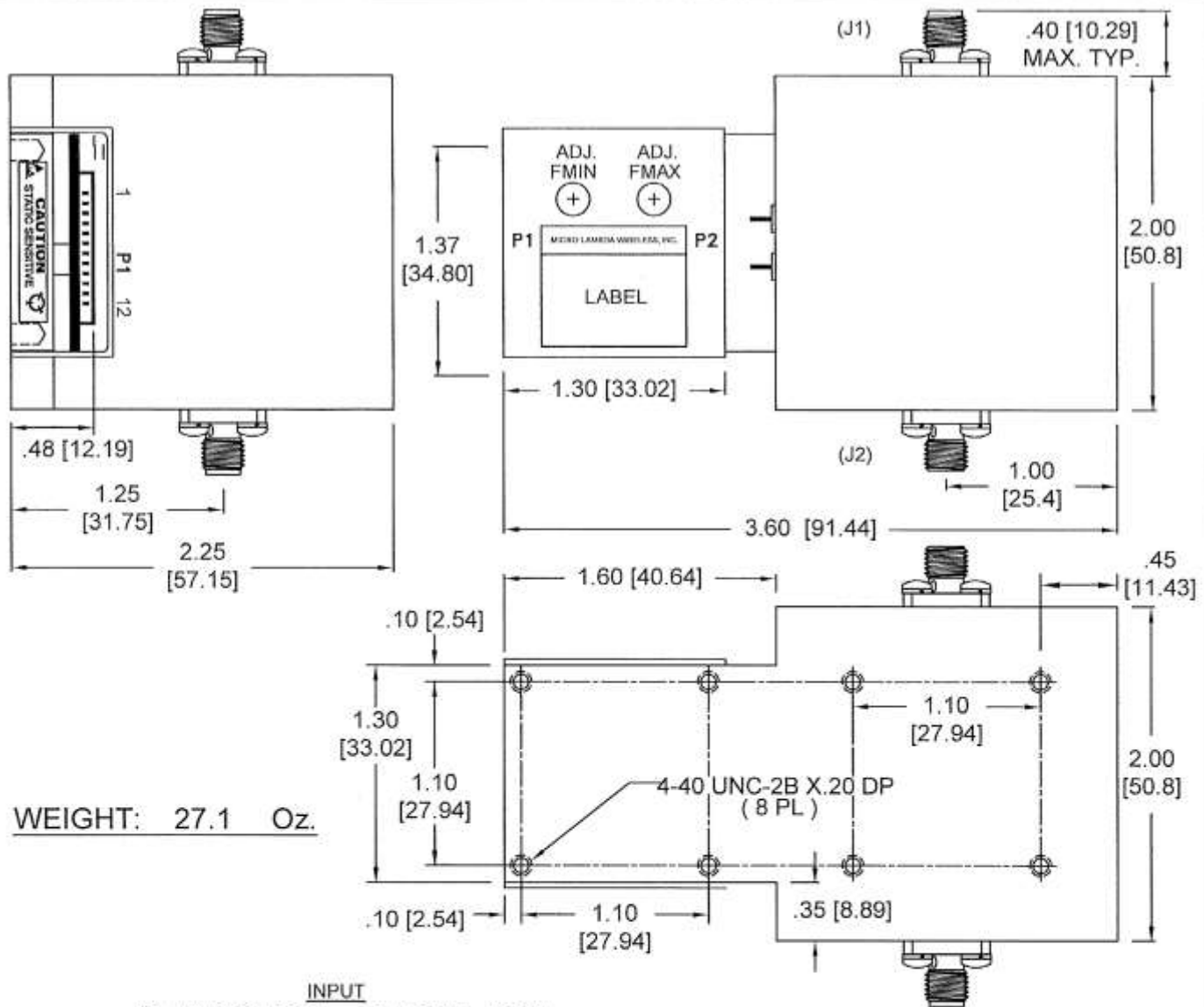
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ARE FRACTIONS DECIMALS ANGLES
 * XX ±.01
 * XX ±.010
 MATERIAL
 FINISH
 DO NOT SCALE DRAWING

CONTRACT NO.	
APPROVALS	DATE
DRAWN N. NGUYEN	7/26/2022
CHECKED DS	7/27/22
ISSUED	

MICRO LAMBDA WIRELESS, INC.

ANALOG OR SERIAL DRIVER WITH 2.0" BP FILTER; K-CONN.

SIZE	CAGE NO.	DWG. NO.	REV.
	0RN63	99 - 0021 - 180	A



WEIGHT: 27.1 Oz.

INPUT

PIN	FUNCTION	FUNCTION
1	CONTROL-V 0-10V	CLOCK (SCLK)
2	CONTROL RETURN	DATA (MOSI)
3	N/C	SELECTn (CS)
4	GROUND	GROUND
5	-V SUPPLY	-V SUPPLY
6	+V SUPPLY	+V SUPPLY
7	HEATER 1	HEATER 1
8	HEATER 2	HEATER 2
9	FM +/- 10V	N/C
10	FM RETURN	N/C
11	FAST/SLOWn	N/C
12	GROUND	GROUND

FILTER RF CONNECTIONS

CONN.	TYPE	FUNCTION
J1	V-CONN; FEM.	RF INPUT
J2	V-CONN; FEM.	RF OUTPUT

NOTES:

- RECOMMENDED WIRE SIZE = 24 GAUGE
- P1 CONNECTION:
 - MOLEX PART # : 5040501291(1.5MM)
 - MATING WITH # : 5040511201
 - CRIMP CONTACT : 5040520098
- DIMENSIONS ARE IN INCHES
- () DIMENSIONS ARE IN MM.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ARE: FRACTIONS DECIMALS ANGLES

CONTRACT NO.	
APPROVALS	DATE
DRAWN N. NGUYEN	5/20/2022
CHECKED DS	5/24/22
ISSUED	

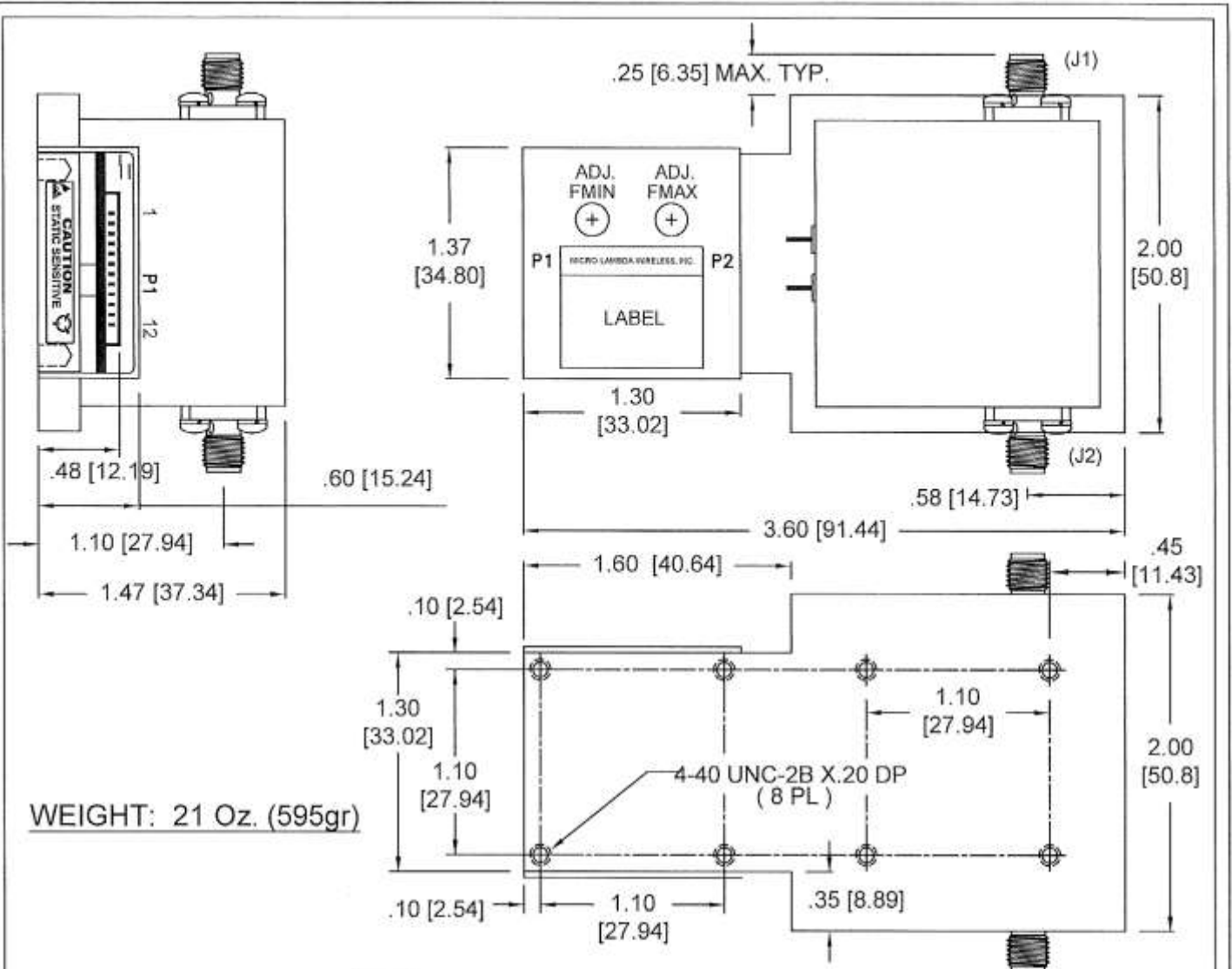


MICRO LAMBDA WIRELESS, INC.

ANALOG OR SERIAL DRIVER WITH 2.0" BP FILTER

SIZE	CAGE No.	DWG. No.	REV.
	ORN63	99 - 0021 - 173	A

DO NOT SCALE DRAWING



WEIGHT: 21 Oz. (595gr)

INPUT

PIN	ANALOG MODEL FUNCTION	P1 SERIAL MODEL FUNCTION
1	CONTROL-V 0-10V	CLOCK (SCLK)
2	CONTROL RETURN	DATA (MOSI)
3	N/C	SELECTn (CS)
4	GROUND	GROUND
5	-V SUPPLY	-V SUPPLY
6	+V SUPPLY	+V SUPPLY
7	HEATER 1	HEATER 1
8	HEATER 2	HEATER 2
9	FM +/- 10V	N/C
10	FM RETURN	N/C
11	FAST/SLOWn	N/C
12	GROUND	GROUND

FILTER RF CONNECTIONS

CONN.	TYPE	FUNCTION
J1	SMA FEMALE	RF INPUT
J2	SMA FEMALE	RF OUTPUT

NOTES:

- 1- RECOMMENDED WIRE SIZE = 24 GAUGE
- 2- P1 CONNECTION:
 - MOLEX PART # : 5040501291(1.5MM)
 - MATING WITH # : 5040511201
 - CRIMP CONTACT : 5040520098
- 3- DIMENSIONS ARE IN INCHES
- 4- [] DIMENSIONS ARE IN MM.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:

FRACTIONS DECIMALS ANGLES

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS DATE

DRAWN H. NGUYEN 7/26/2022

CHECKED DS 7/27/22

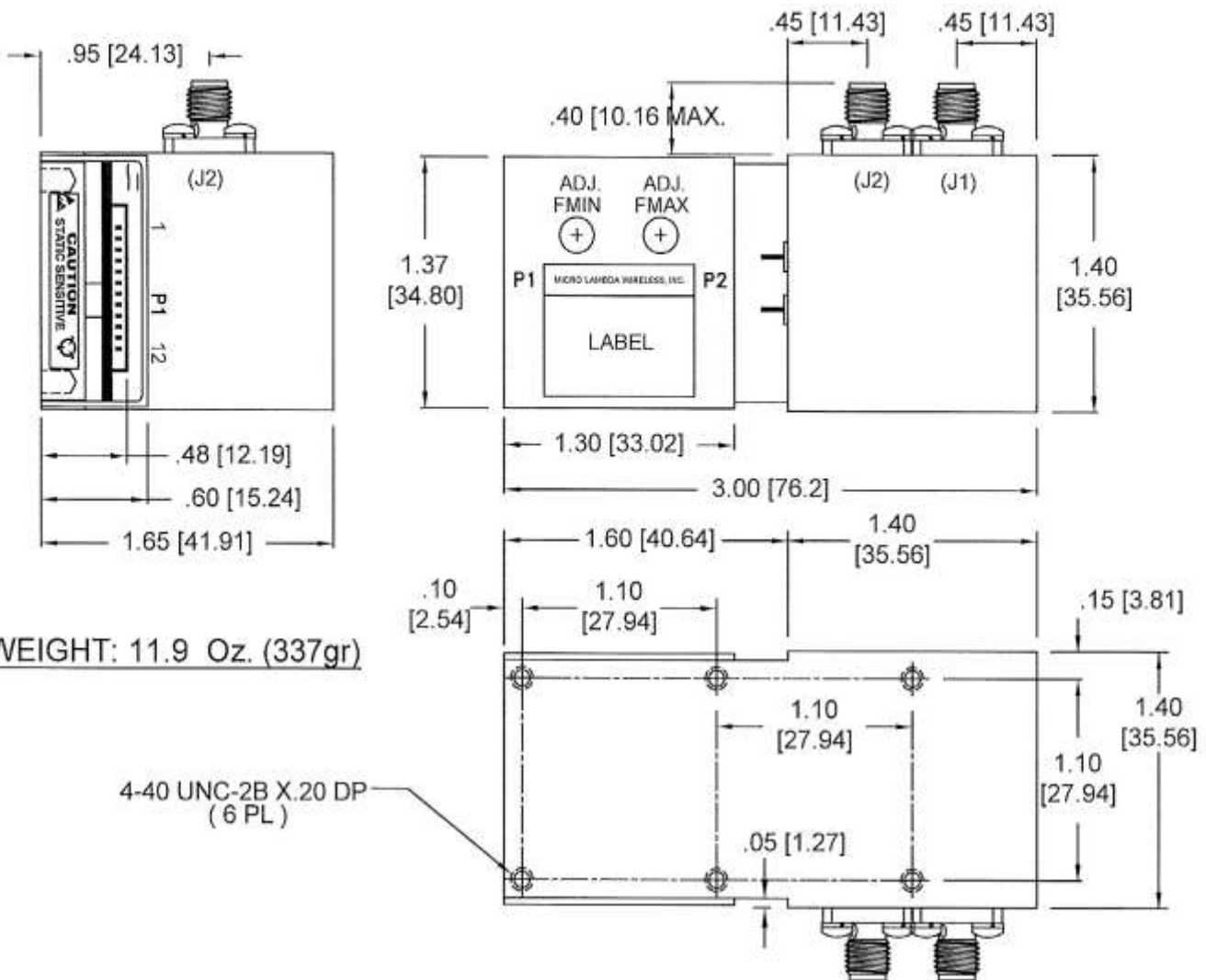
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MICRO LAMBDA WIRELESS, INC.

ANALOG OR SERIAL DRIVER WITH 1.7" X 1.2" BP FILTER

SIZE	CAGE No	QWG No	REV.
	ORN63	99 - 0021 - 179	A



WEIGHT: 11.9 Oz. (337gr)

4-40 UNC-2B X.20 DP
(6 PL)

INPUT

PIN	FUNCTION	P1 SERIAL MODEL FUNCTION
1	CONTROL-V 0-10V	CLOCK (SCLK)
2	CONTROL RETURN	DATA (MOSI)
3	N/C	SELECTn (CS)
4	GROUND	GROUND
5	-V SUPPLY	-V SUPPLY
6	+V SUPPLY	+V SUPPLY
7	HEATER 1	HEATER 1
8	HEATER 2	HEATER 2
9	N/C	N/C
10	N/C	N/C
11	N/C	N/C
12	GROUND	GROUND

FILTER RF CONNECTIONS

CONN.	TYPE	FUNCTION
J1	SMA	RF INPUT
J2	SMA	RF OUTPUT

NOTES:

- 1- RECOMMENDED WIRE SIZE = 24 GAUGE
- 2- P1 CONNECTION:
 - MOLEX PART # : 5040501291(1.5MM)
 - MATING WITH # : 5040511201
 - CRIMP CONTACT : 5040520098
- 3- DIMENSIONS ARE IN INCHES
- 4- [] DIMENSIONS ARE IN MM.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ARE:

FRACTIONS DECIMALS ANGLES
 .XX ± .02
 .XXX ± .015

MATERIAL

FINISH

CONTRACT NO.

APPROVALS

DATE

DRAWN N. NGUYEN

6/10/2022

CHECKED DS

6/10/22

ISSUED



MICRO LAMBDA WIRELESS, INC.

ANALOG OR SERIAL DRIVER WITH 1.4" BR FILTER

SIZE

CAGE No
ORN63

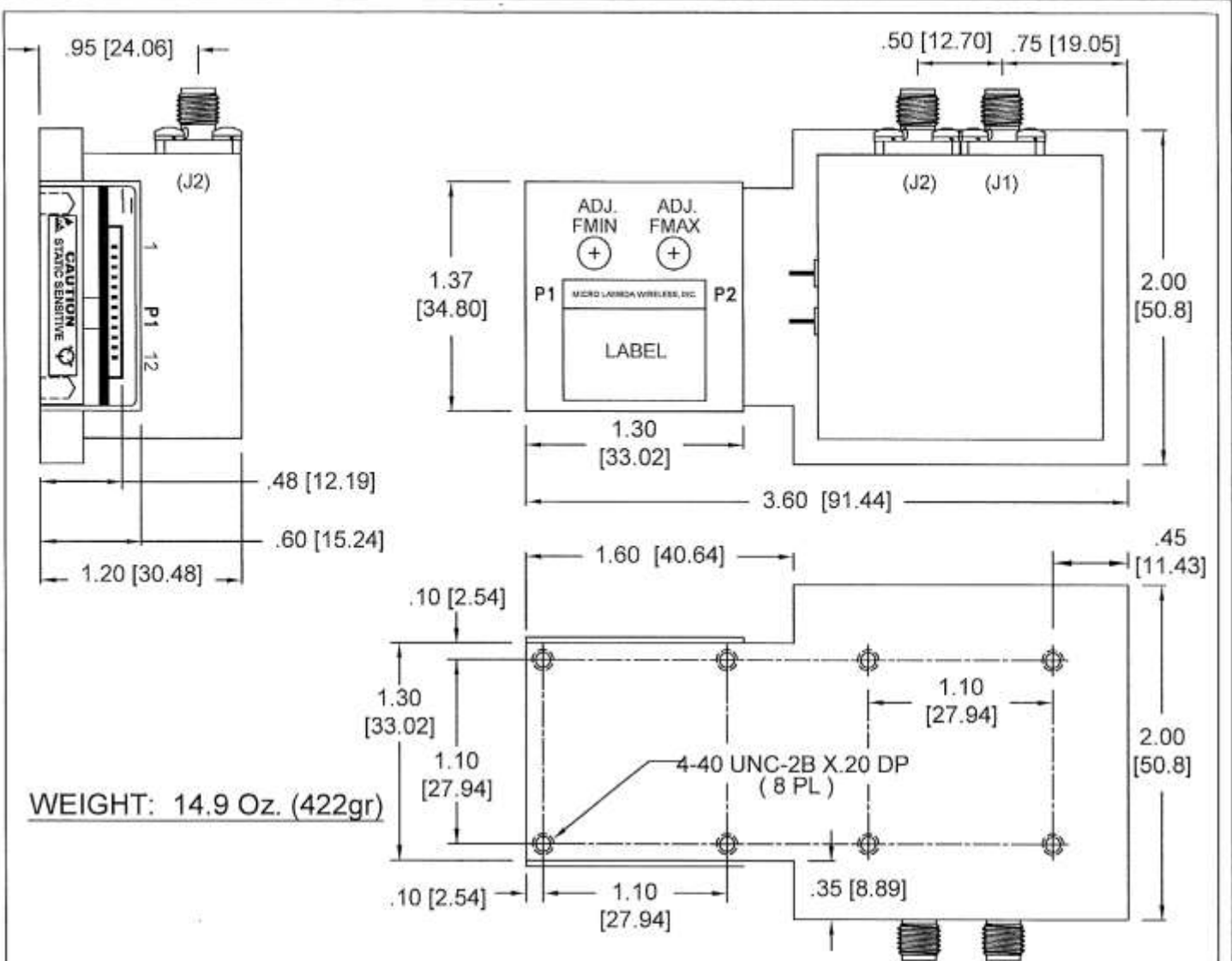
DWG NO

99 - 0021 - 177

REV

A

DO NOT SCALE DRAWING



WEIGHT: 14.9 Oz. (422gr)

INPUT

PIN	FUNCTION	
	P1 ANALOG MODEL	P1 SERIAL MODEL
1	CONTROL-V 0-10V	CLOCK (SCLK)
2	CONTROL RETURN	DATA (MOSI)
3	N/C	SELECTn (CS)
4	GROUND	GROUND
5	-V SUPPLY	-V SUPPLY
6	+V SUPPLY	+V SUPPLY
7	HEATER 1	HEATER 1
8	HEATER 2	HEATER 2
9	FM +/- 10V	N/C
10	FM RETURN	N/C
11	FAST/SLOWn	N/C
12	GROUND	GROUND

FILTER RF CONNECTIONS

CONN.	TYPE	FUNCTION
J1	SMA	RF INPUT
J2	SMA	RF OUTPUT

NOTES:

- 1- RECOMMENDED WIRE SIZE = 24 GAUGE
- 2- P1 CONNECTION:
 - MOLEX PART # : 5040501291(1.5MM)
 - MATING WITH # : 5040511201
 - CRIMP CONTACT : 5040520098
- 3- DIMENSIONS ARE IN INCHES
- 4- [] DIMENSIONS ARE IN MM.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES

 MATERIAL
 FINISH
 DO NOT SCALE DRAWING

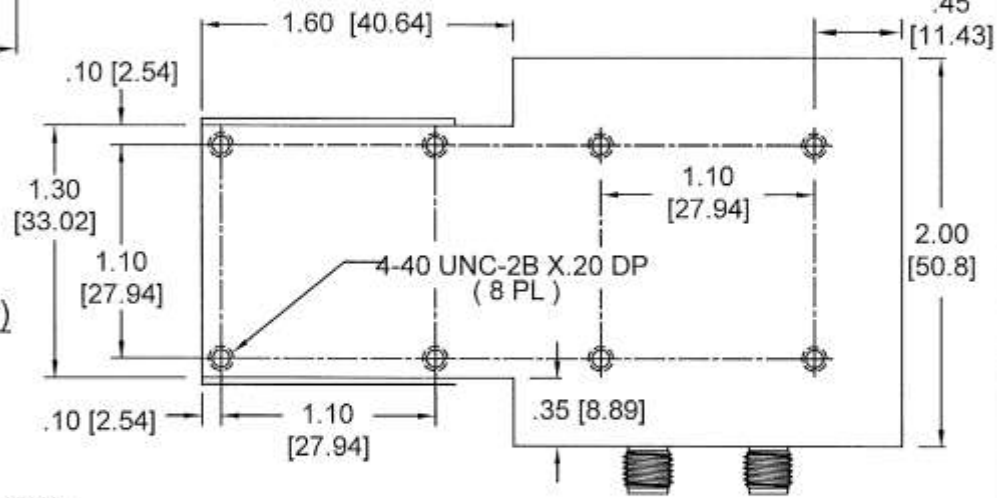
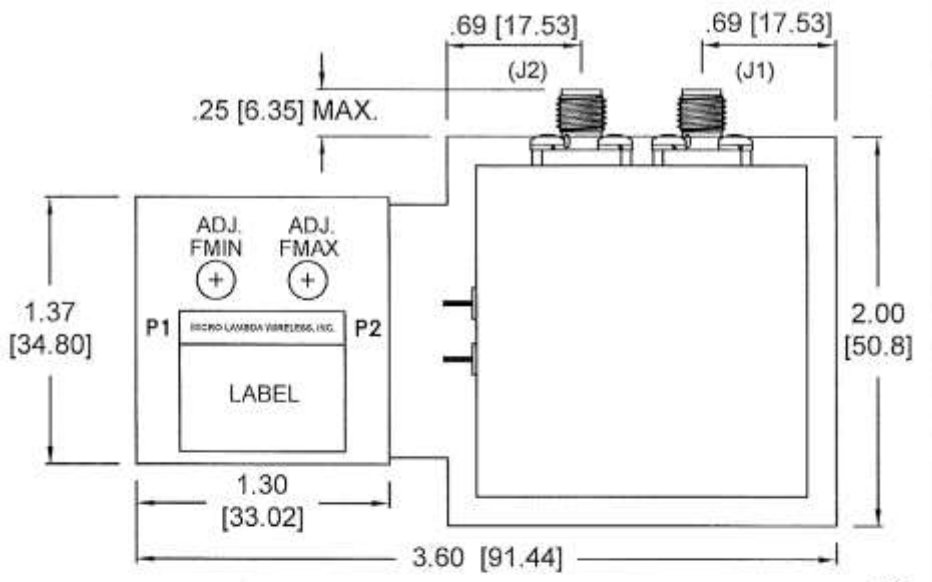
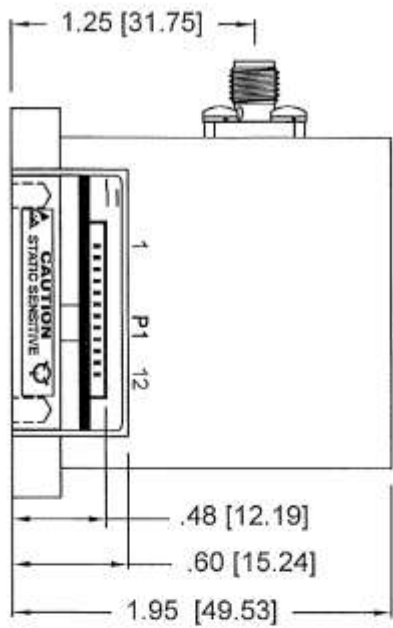
CONTRACT NO.	
APPROVALS	DATE
DRAWN N. NGUYEN	6/10/2022
CHECKED DS	6/10/22
ISSUED	



MICRO LAMBDA WIRELESS, INC.

ANALOG OR SERIAL DRIVER WITH 1.7" UN BR FILTER

SIZE	CAGE No	DWG. NO.	REV.
	ORN63	99 - 0021 - 175	A



WEIGHT: 21 Oz. (595gr)

INPUT

PIN	FUNCTION	P1 SERIAL MODEL FUNCTION
1	CONTROL-V 0-10V	CLOCK (SCLK)
2	CONTROL RETURN	DATA (MOSI)
3	N/C	SELECTn (CS)
4	GROUND	GROUND
5	-V SUPPLY	-V SUPPLY
6	+V SUPPLY	+V SUPPLY
7	HEATER 1	HEATER 1
8	HEATER 2	HEATER 2
9	FM +/- 10V	N/C
10	FM RETURN	N/C
11	FAST/SLOWn	N/C
12	GROUND	GROUND

FILTER RF CONNECTIONS

CONN.	TYPE	FUNCTION
J1	SMA	RF INPUT
J2	SMA	RF OUTPUT

NOTES:

- RECOMMENDED WIRE SIZE = 24 GAUGE
- P1 CONNECTION:
 - MOLEX PART # : 5040501291(1.5MM)
 - MATING WITH # : 5040511201
 - CRIMP CONTACT : 5040520098
- DIMENSIONS ARE IN INCHES
- [] DIMENSIONS ARE IN MM.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ARE:
 FRACTIONS DECIMALS ANGLES
 ±.02
 ±.010

MATERIAL:

FINISH:

DO NOT SCALE DRAWING

CONTRACT NO.	
APPROVALS	DATE
DRAWN N. NGUYEN	6/10/2022
CHECKED DS	6/10/22
ISSUED	



MICRO LAMBDA WIRELESS, INC.

ANALOG OR SERIAL DRIVER WITH 1.7" BR FILTER

SIZE	CAGE No	DWG. NO.	REV.
0RN63		99 - 0021 - 176	A