



FEATURES

- 350 MHz to 18 GHz Frequency Coverage
- Excellent Linearity
- Superior Notch Depth



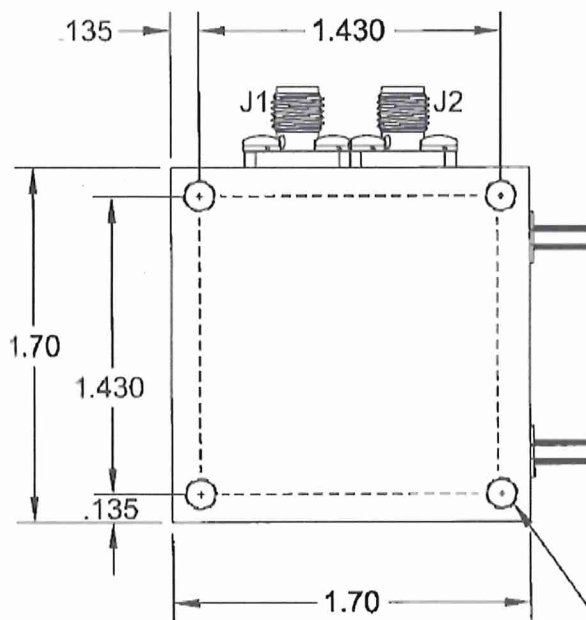
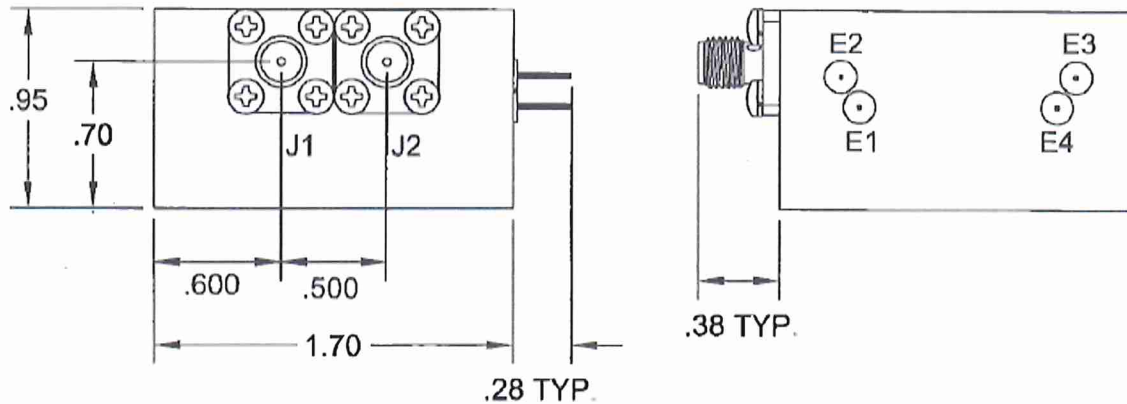
DESCRIPTION

The MICRO LAMBDA **MLUN**-Series of Band Reject filters cover the frequency range of 350 MHz to 18 GHz in different bands. These filters offer excellent notch depth and precise bandwidths for rejection of unwanted signals. 3 dB bandwidths are 50 to 175 MHz with 60 dB bandwidths of 5 to 10 MHz in standard designs. These filters are well suited for broadband receivers and a variety of EW system applications. Standard configuration are provided and can also be ordered with an Analog, TTL Digital or Serial Driver.

ELECTRICAL AND PERFORMANCE SPECIFICATIONS

Guaranteed Specifications at -0° to +65° C Case Temperature

Model No.	MLUN-0305	MLUN-0502	MLUN-0206	MLUN-0618	MLUN-0218
Frequency Range, Min.	0.35-0.52 GHz	0.5-2 GHz	2-6 GHz	6-18 GHz	2-18 GHz
Reject Bandwidth					
@ 30 dB, Min.	4 MHz				
@ 40 dB, Min.		5 MHz	23 MHz	40 MHz	10 MHz
@ 50 dB, Min.		2 MHz	20 MHz	37 MHz	8 MHz
@ 60 dB, Min.			17 MHz	35 MHz	5 MHz
@ 3 dB, Max.	50 MHz	80 MHz	120 MHz	175 MHz	175 MHz
Passband VSWR, Max.	2:1	2:1	2:1	2:1	2:1
Passband Insertion Loss, Max.	2.0 dB	2.0 dB	2.0 dB	2.5 dB	2.5 dB
Passband Range	DC-2 GHz	DC-3 GHz	DC-6.2 GHz	DC-18.2 GHz	DC-18.2 GHz
Spurious, Max	4 dB	4 dB	4 dB	4 dB	4 dB
Limiting Level, Min.	0 dBm	+5 dBm	+10 dBm	+10 dBm	+10 dBm
Max. Input Power, No Damage.	+28 dBm	+28 dBm	+28 dBm	+28 dBm	+28 dBm
Tuning Coil Characteristics					
Tuning Sensitivity, Typ.	13 MHz/mA	13 MHz/mA	18 MHz/mA	20 MHz/mA	20 MHz/mA
Linearity, Max.	+/- 2 MHz	+/- 2 MHz	+/- 3 MHz	+/- 4 MHz	+/- 6 MHz
Hysteresis, Typ.	2 MHz	2 MHz	4 MHz	12 MHz	15 MHz
Temperature Drift (0 to 60 deg. C), Max.	8 MHz	6 MHz	8 MHz	10 MHz	12 MHz
Coil Resistance, Typ.	16 Ohms	16 Ohms	13 Ohms	6 Ohms	6 Ohms
Coil Inductance, Typ.	120 mH	120 mH	120 mH	140 mH	140 mH
Heater Voltage	+28 Vdc	+28 Vdc	+28 Vdc	+28 Vdc	+28 Vdc
Heater Current-Surge, Max. @ 25 deg. C.	1000 mA	1000 mA	1000 mA	1000 mA	1000 mA
Steady State @ 25 deg. C.	150 mA	150 mA	150 mA	150 mA	150 mA
Case Style	99-0021-141	99-0021-141	99-0021-141	99-0021-145	99-0021-145



CONN	FUNCTIONS
J1	RF IN
J2	RF OUT
E1	+ COIL
E4	- COIL
E2	HEATER
E3	HEATER

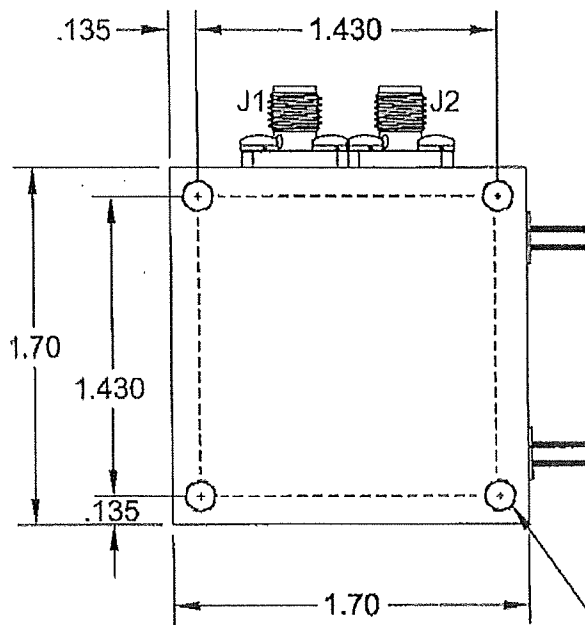
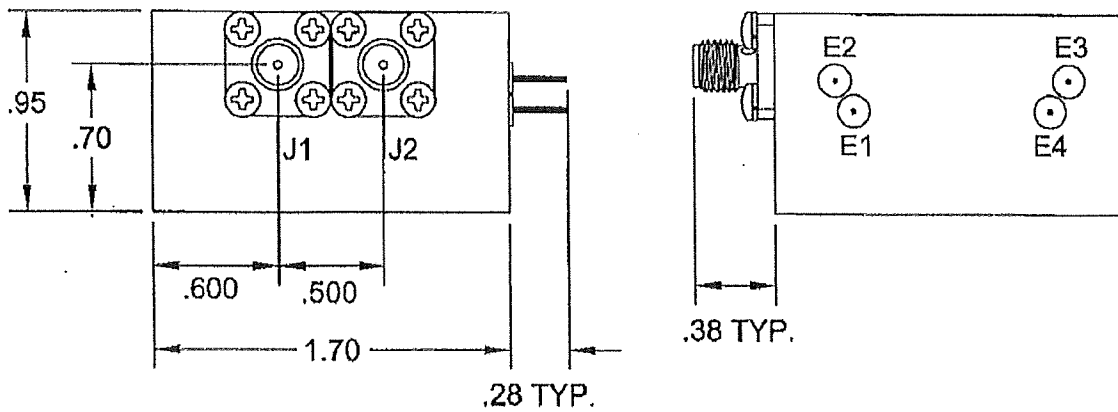
* POSITION OF E1 & E2
SELECTED AT FACTORY FOR
COIL POLARITY

6-32 x.20 DP
(4 PLS)

WEIGHT : 10 Oz. MAX

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES . .XX .001 . .XXX .010	CONTRACT NO.		 MICRO LAMBDA WIRELESS, INC.
	APPROVED	DATE	
MATERIAL	DRAWN	N. NGUYEN	1/28/15
FINISH	CHECKED	<i>[Signature]</i>	01/28/16
DO NOT SCALE DRAWINGS	REVISED		
		SIZE	CAGE NO.
			ORN63
		DWG. NO.	99-0021-141
		REV.	

BAND REJECT FILTER (1.7" X .95")



CONN	FUNCTIONS
J1	RF IN
J2	RF OUT
E1	+ COIL
E4	- COIL
E2	HEATER
E3	HEATER

* POSITION OF E1 & E2
SELECTED AT FACTORY FOR
COIL POLARITY

6-32 x.20 DP
(4 PLS)

WEIGHT : 10 Oz. MAX

UNLESS OTHERWISE SPECIFIED DIMENSIONS
ARE IN INCHES
TOLERANCES ARE:

FRACTIONS DECIMALS ANGLES
± .010 ± .005 ± .005

MATERIAL

FINISH

ISSUED

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS

DATE

DRAWN N. NGUYEN 1/28/16

0/28/16

ISSUED



MICRO LAMBDA WIRELESS, INC.

BAND REJECT FILTER (1.7" X .95")

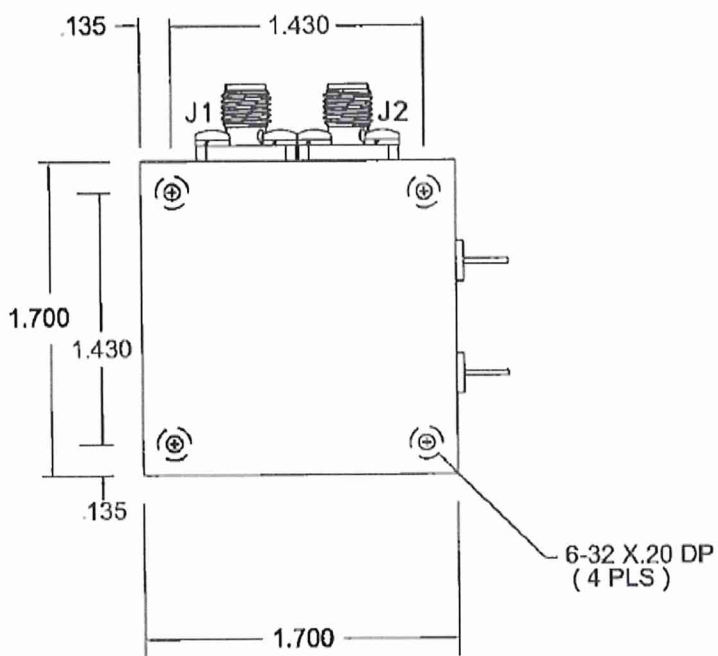
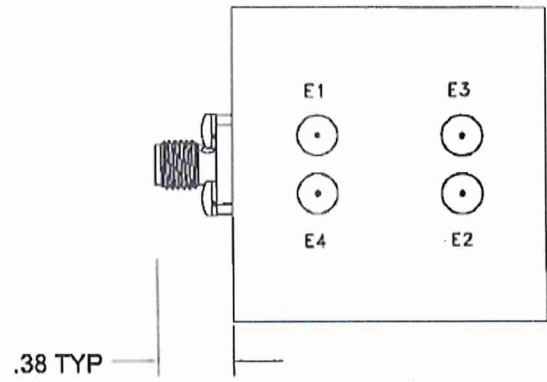
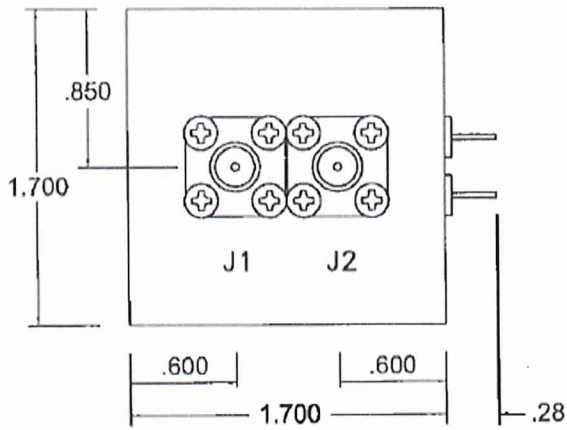
SIZE

CASE NO
0RN63

DWG. NO.

99 - 0021 - 141

REV.



CONN	FUNCTIONS
J1	RF IN
J2	RF OUT
E1	+ COIL
E2	- COIL
E3	HEATER
E4	HEATER

* POSITION OF E1 & E2
SELECTED AT FACTORY FOR
COIL POLARITY

WEIGHT : 16 Oz. MAX

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE		CONTRACT NO.	
FRACTIONS	DECIMALS	APPROVALS	DATE
	XX ±.010 XXX ±.005	DRAWN N. NGUYEN	4/26/16
MATERIAL	CARPENTER 45	CHECKED	4/16/16
FINISH		ISSUED	
DO NOT SCALE DRAWING			



MICRO LAMBDA WIRELESS, INC.

ULTRA NOTCH FILTER (1.7")

SIZE	CAGE No 0RN63	DWG. NO. 99 - 0021 - 145	REV A
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