MERCURY IIIS AMP

Features

- Operating Bands 160m – 6m
- RF Auto Band Decoding
- 7-inch Color Touch Screen
- FWD/REF/SWR Meter
- DI Voltage/DI Current Meter
- All Protection
- Selection for 3 Antennas w/Memory.
- 1200 watts SSB/CW
- 700 watts DIGI mode

mercuryIIIS

LDMOS POWER AMPLIFIER KIT

Designed and Manufactured in the USA

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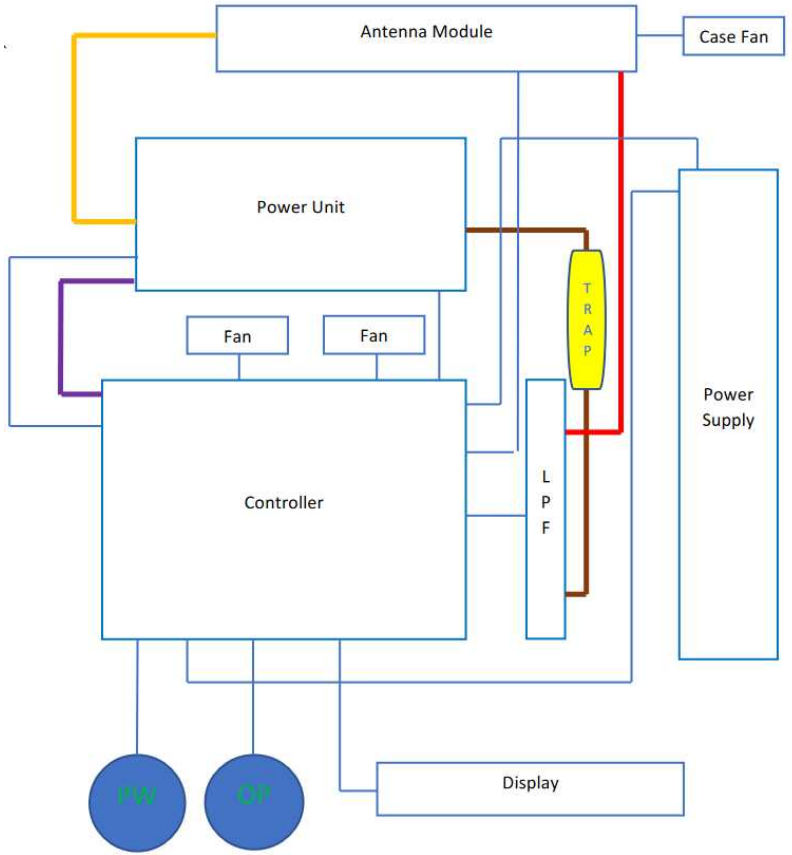
KM3KM HAM RADIO PARTS

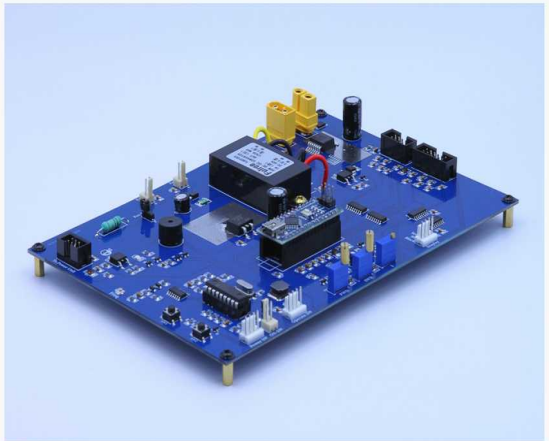
eHAM.net Review

Review Summary For : Mercury III HF amplifier kit			
	Reviews: 48	**MSRP: 2200**	
	Description: This solid state HF amplifier uses a single LDMOS for fully automatic operation from 160m to 6M making 1200W with input power between 50 and 90W depending on your ALC setting. Protected against antenna SWR over 2 to 1 and also against excessive input power. Builtin power supply for 120 or 240 VAC without changing taps in the transformer, just changing the power cable plug. Fans work silent and color front panel display. Output to three antennas selectable in the display with operator finger. This is a kit that you put together at home but assembly is very easy to do.		
	Product is **in production**		
More Info: http://www.km3km.com			
# last 180 days	**Avg. Rating last 180 days**	**Total reviews**	**Avg. overall rating**
21	5	48	5 ★★★★★

Block diagram

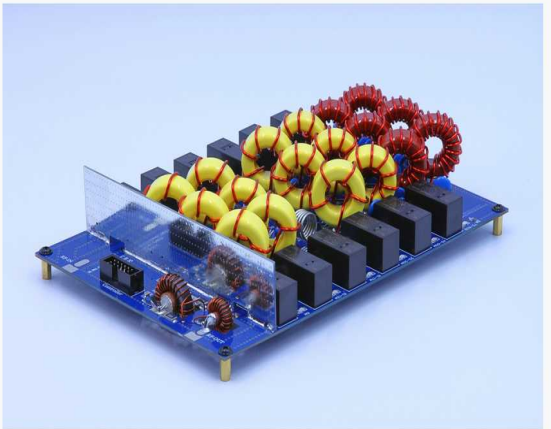


AMP Modules



Controller

RF Band Decoder. SWR/FWD Meters. V/C Meters. ALL Protections for LDMOS. Relays and Fans Driver.



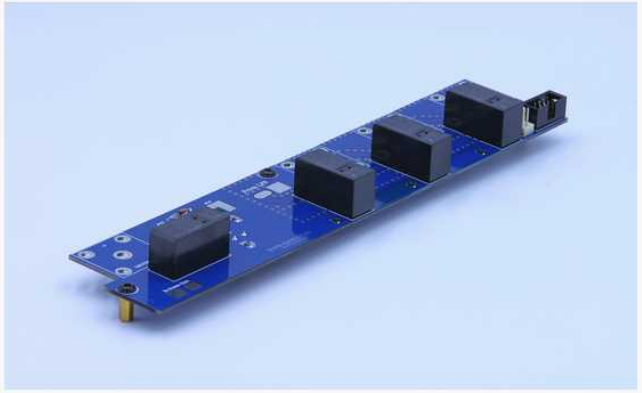
Low Pass Filter

1.8 – 54 MHz Ham Radio Segments Chebyshev Filters. 1500 Watts SSB. SWR Coupler on Board.

Power Unit

1200 Watts HF. BLF189 LDMOS .0.5 Inch Copper Spreader. Temperature sensor on Board.

AMP MODULES



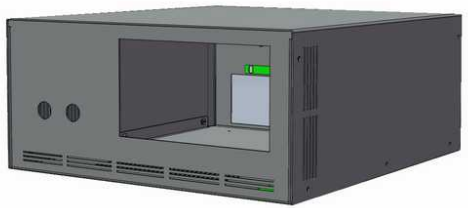
Antenna Module

1500 Watts HF. 3 Antenna Switches. ALC Circuit.

Display

7 Inch Resistive Touch Color Screen. 800×480 pixel. Touches >1 million . Backlight lifetime >30,000 Hours

AMP MODULES



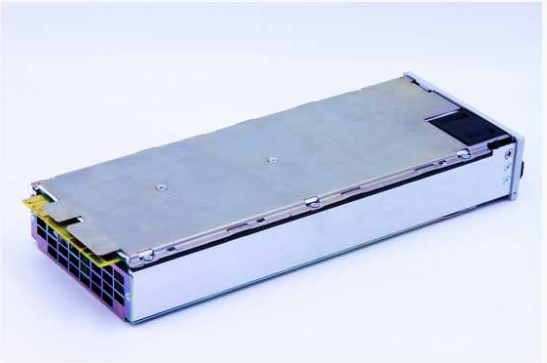
Case

L13.5 x W12 x H5.5 Inch's.

18GAGE, COLD ROLLED

STEEL. Paint Federal

Standard 595 FLAT BLACK



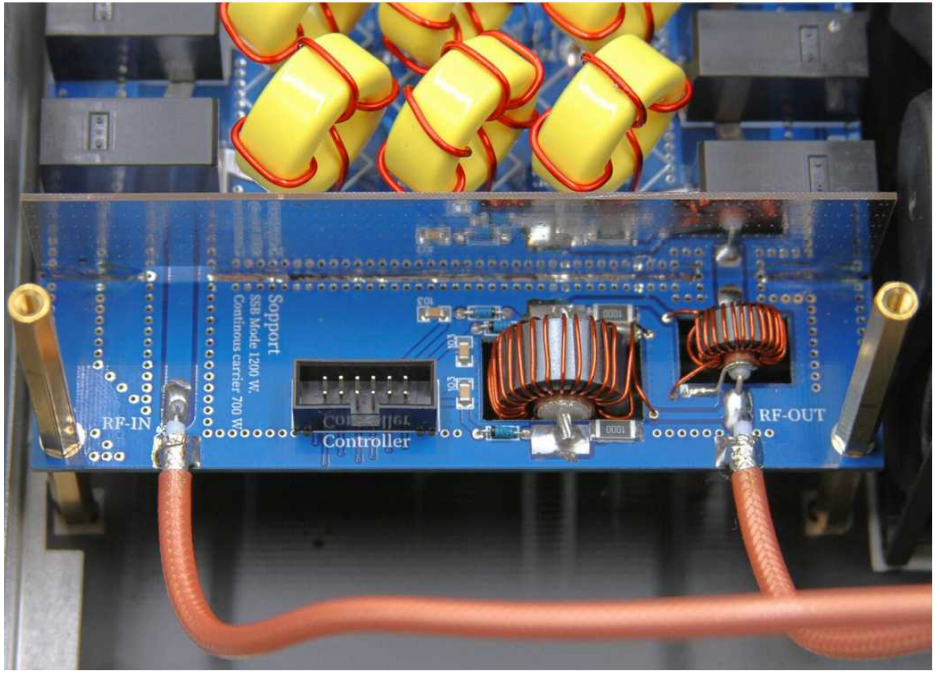
Power Supply

120-240v Auto-sensing

Voltage. 53V/65A DC output.

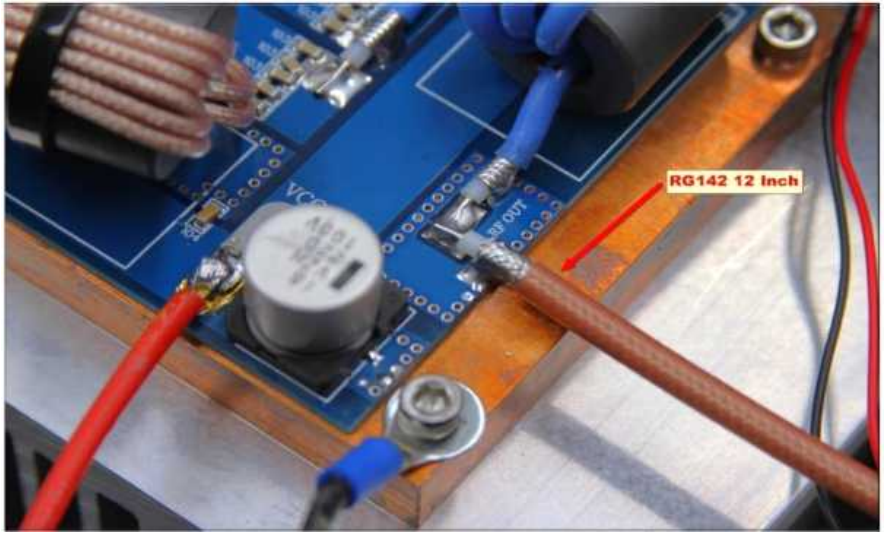
MTBF >500.000 Hours.

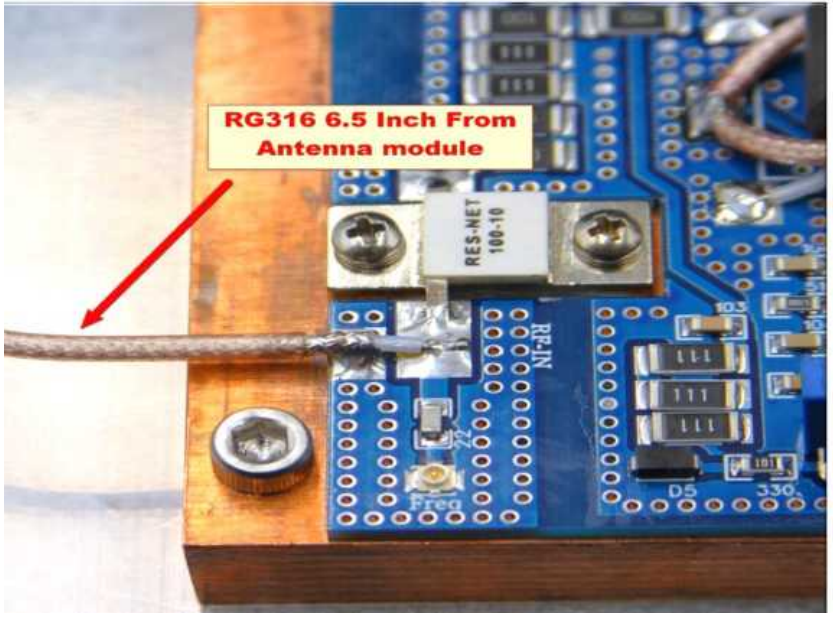
Solder welds



Low pass filter board

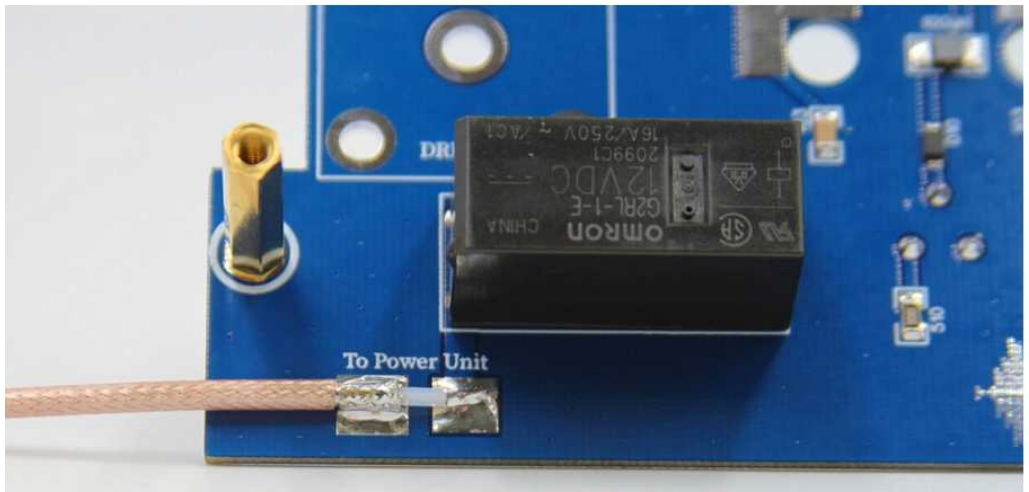
More solder welds

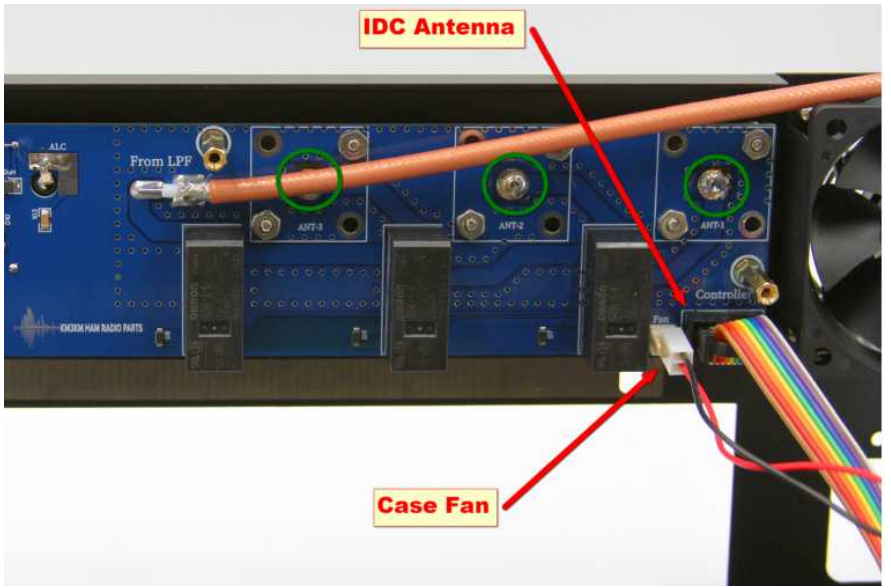




Power Unit

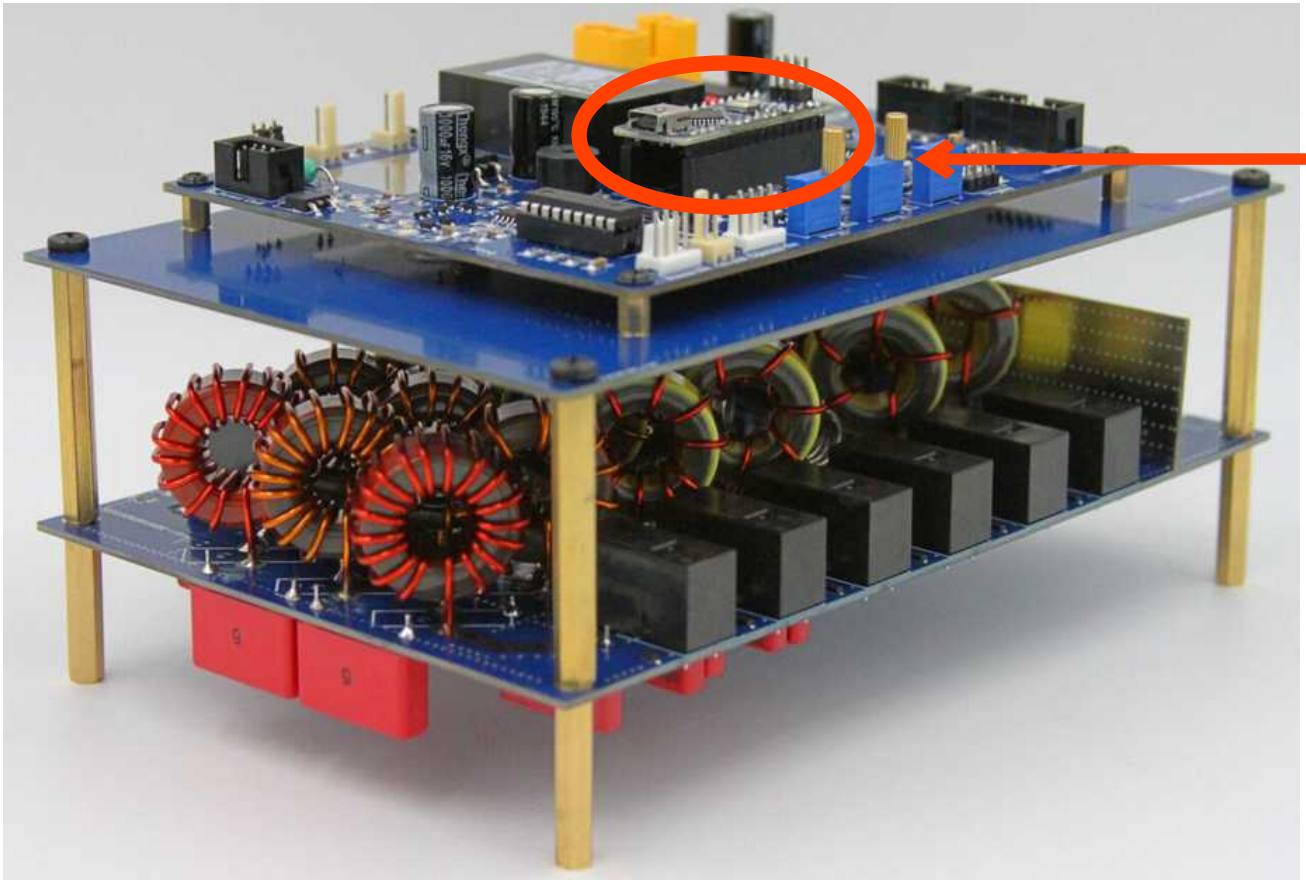
Solder welds cont.



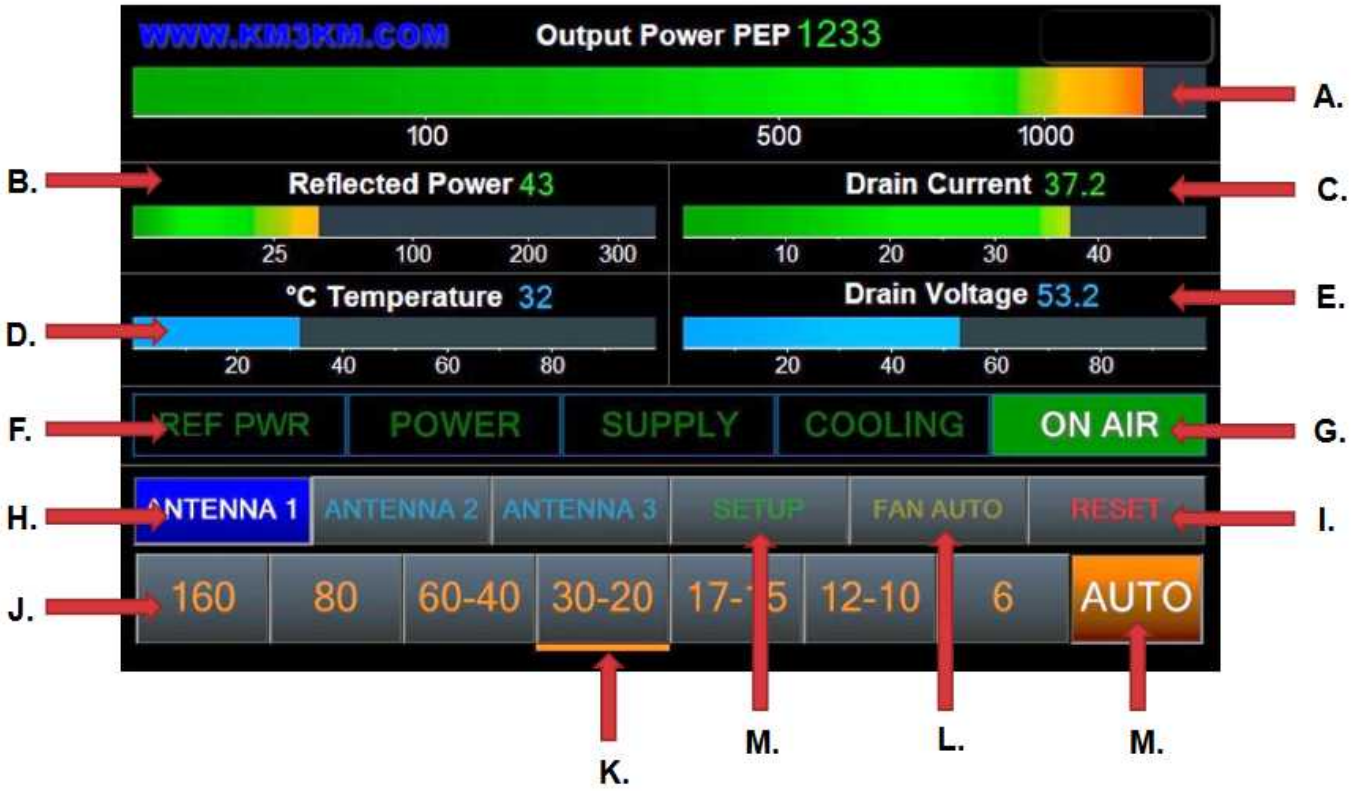


Antenna module

Controller and Low pass filter

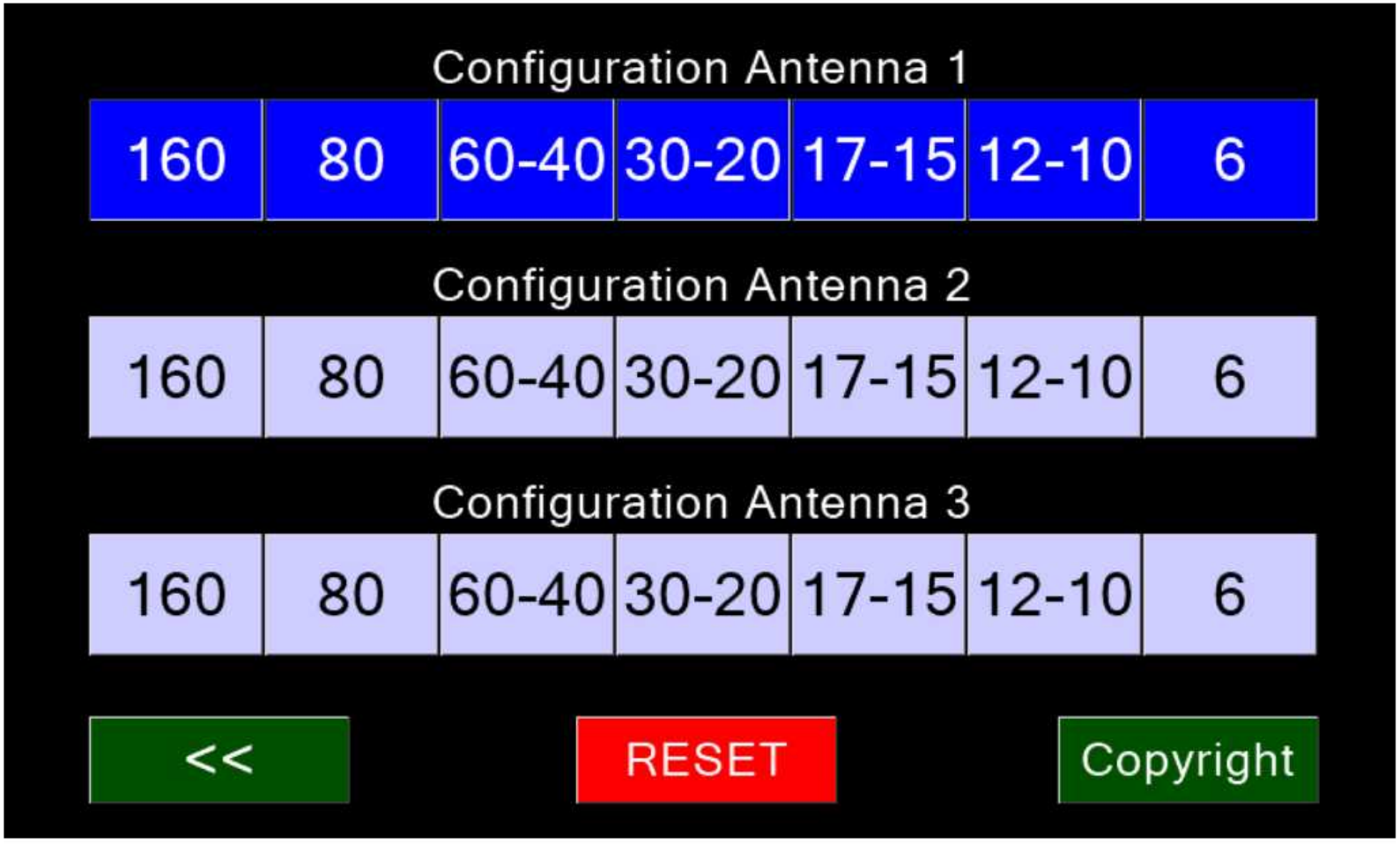


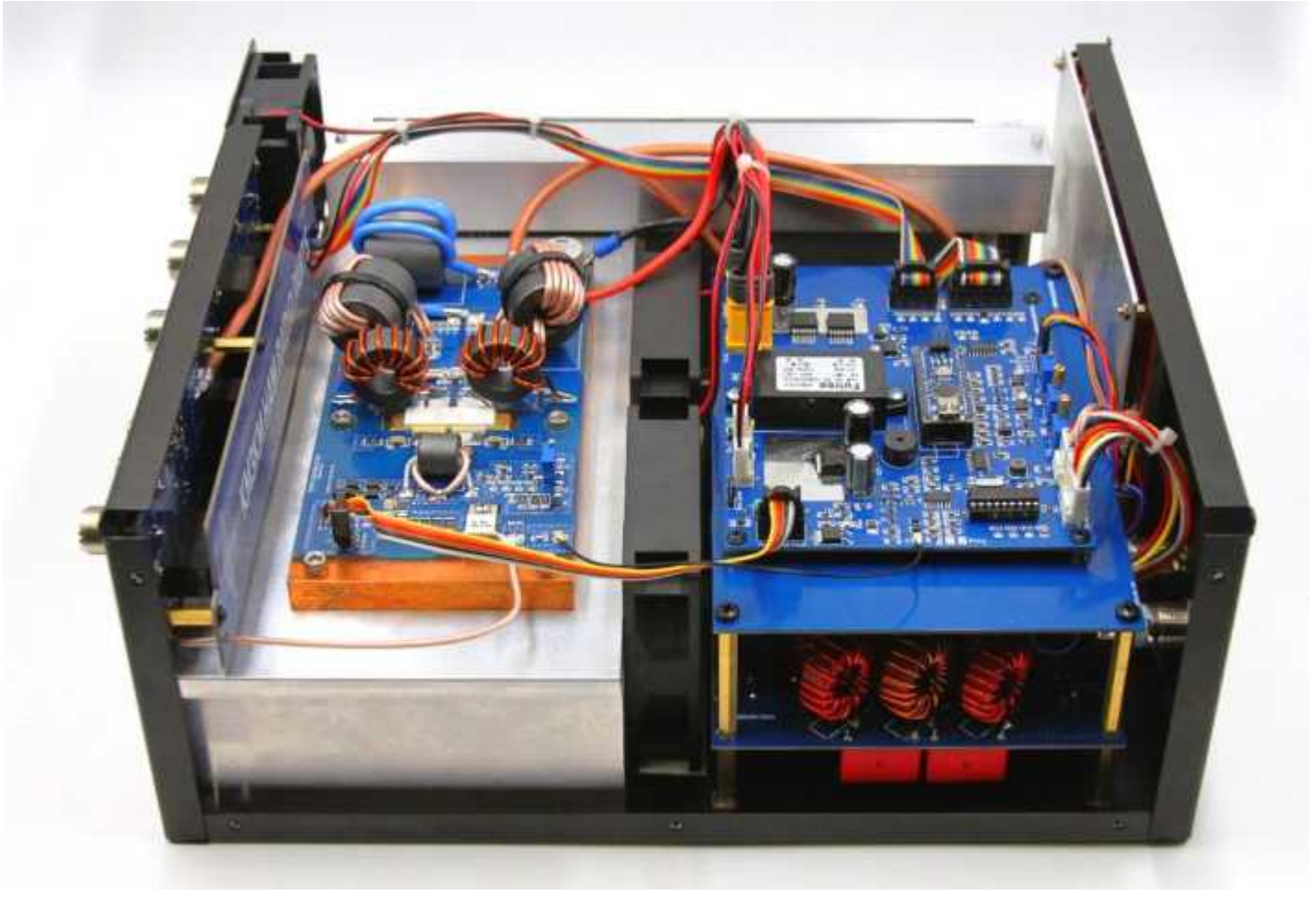
Display

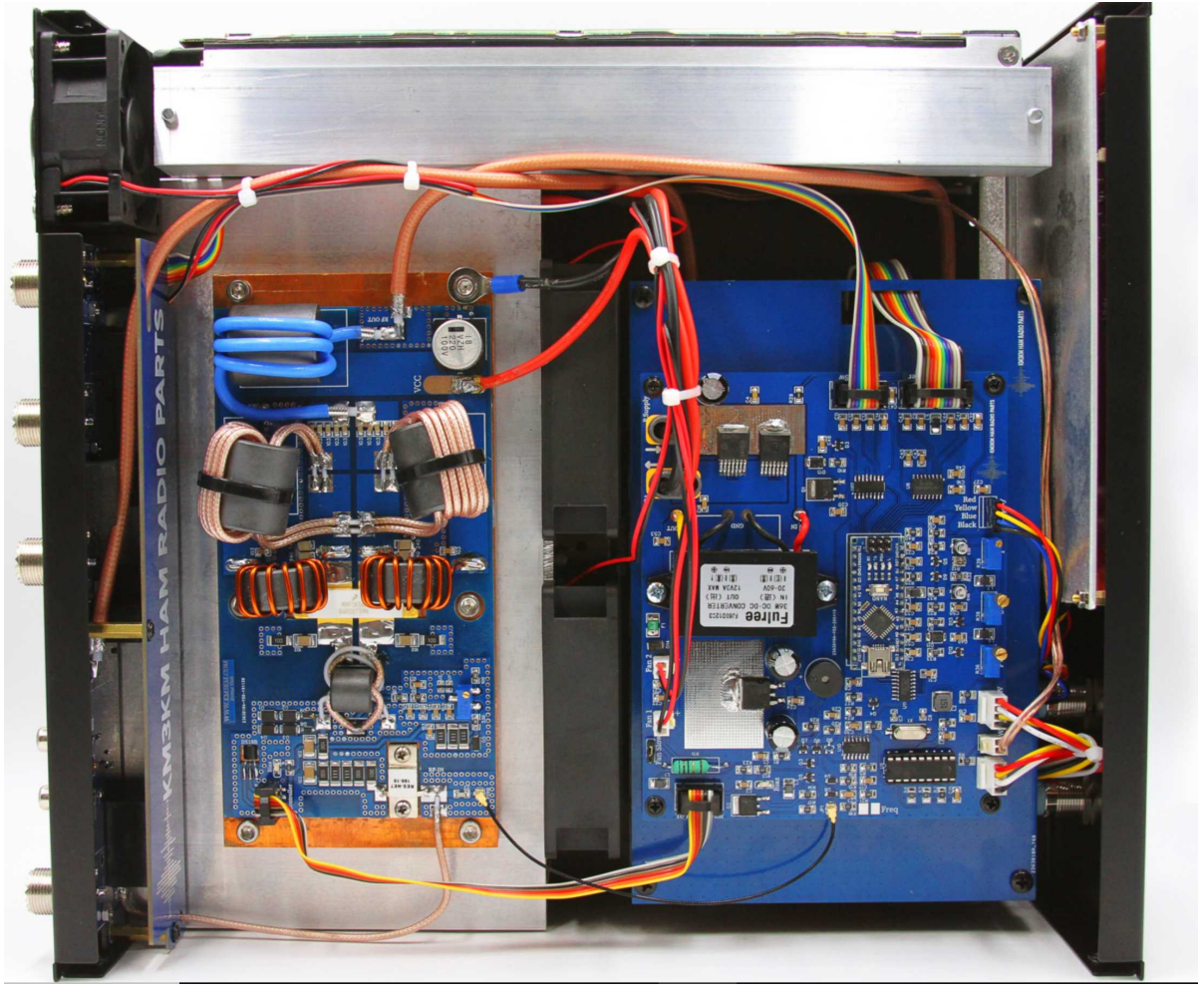


A. FWD Power Meter Output (pep)
B. SWR/REF Meter Output
C. Drain Current Meter
D. Temperature Indicator °C
E. Drain Voltage Meter
F. Alarm Indicators Zone
G. Transmission Indicator
H. Antenna Switch zone
I. Protections and Alarms Reset Button
J. Manual Band Select Buttons zone
K. Automatic Segment Indicator
L. Automatic or Manual Fan Control Button
M. Configuration

Antenna configuration display






KM3KM HAM RADIO PARTS
Red
Yellow
Blue
Black
Freq

ANT-1
ANT-2
ANT-3
RF IN - (MAX 80W)
ALC
PTT
ALC-ADJ
RF OUT - (1200W)
GND
120-240v

Website

https://www.km3km.com/elementor-1915/