

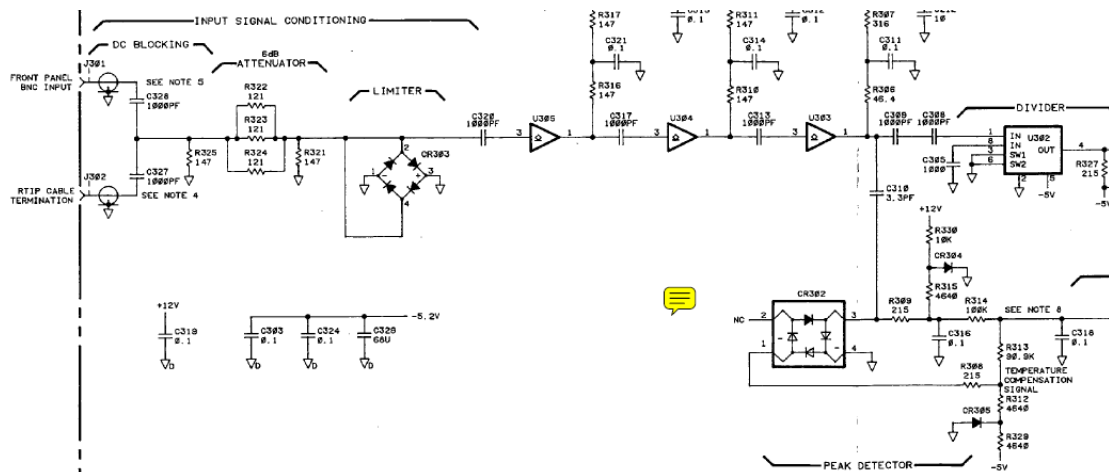
# HP 5334B C-Channel retro fit.

## Shopping list:

Prescaler	OEM MB506	(< 2.4GHz)
	Superior replacement $\mu$ PB1505GR	(< 3GHz)
Diode Quad Rings	OEM 1900-0083	
	(5082-2831) replaced with: 5082-2303	
	Superior replacement HSMS-2817	
RF Connector		
Adapter	SO8 to DIL-8	

## Procedure

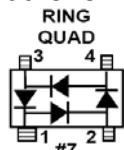
- Remove the PCB from the chassis to enable decent access.
- Drill front panel to suit chosen connector.
- Choose which input you'll use and remove the DC blocking cap from the other (C327 or C328)
- Add selected diodes
- Assemble Prescaler to DIL adapter
- Attach appropriate coax interconnect to PCB
- Reassemble and test.



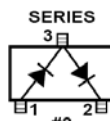
## Notes

I couldn't find any appropriate diode rings, so for each diode ring, I substituted two series pair connected devices instead. I used HSMS-2812 which is far superior to the original part.

While the Peak Detector diodes (CR302) do need to be in a ring, the Limiter (CR303) does not. It is simply two forward and two reversed to ground to clamp the input level.



HSMS-2817

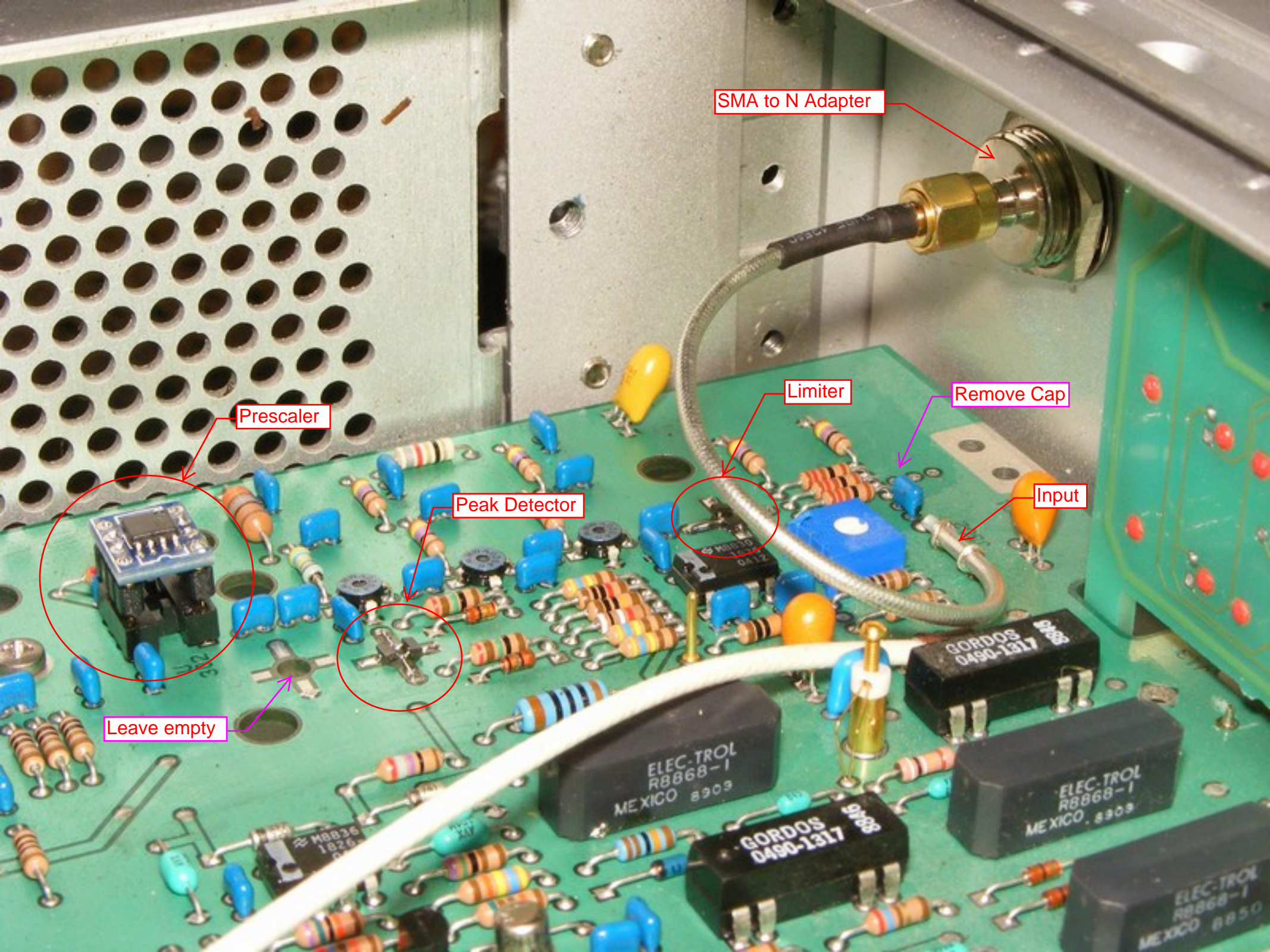


HSMS-2812

While not being a perfect fit, it's still pretty neat.

The  $\mu$ PB1505GR is pin compatible with the MB506, so only a package adapter is required.





SMA to N Adapter

Prescaler

Limiter

Remove Cap

Peak Detector

Input

Leave empty

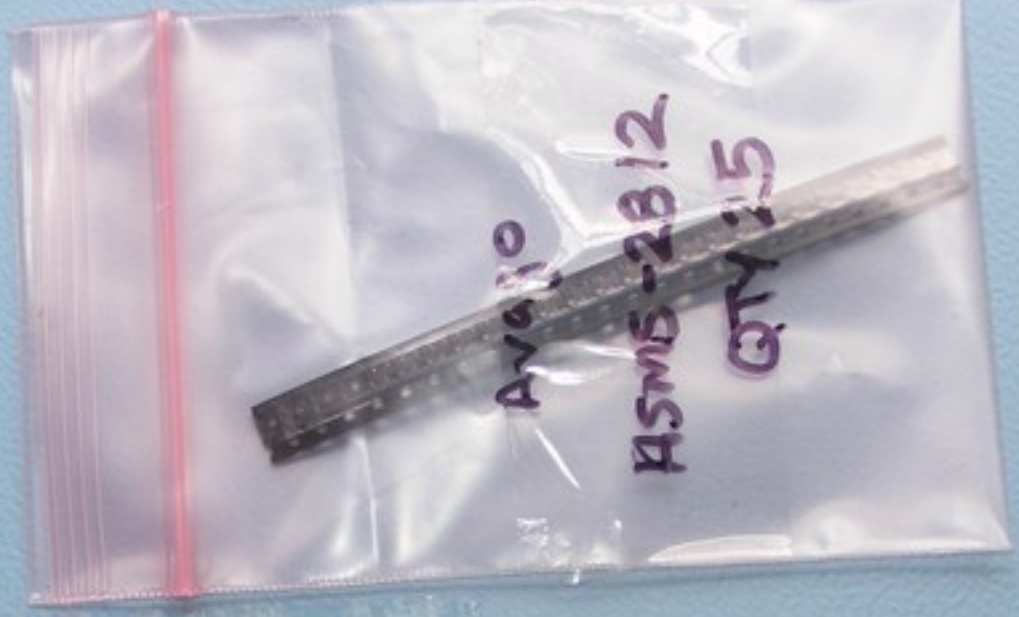
ELEC-TROL  
R8868-1  
MEXICO 8909

GORDOS  
0490-1317

ELEC-TROL  
R8868-1  
MEXICO 8909

ELEC-TROL  
R8868-1  
MEXICO 8850









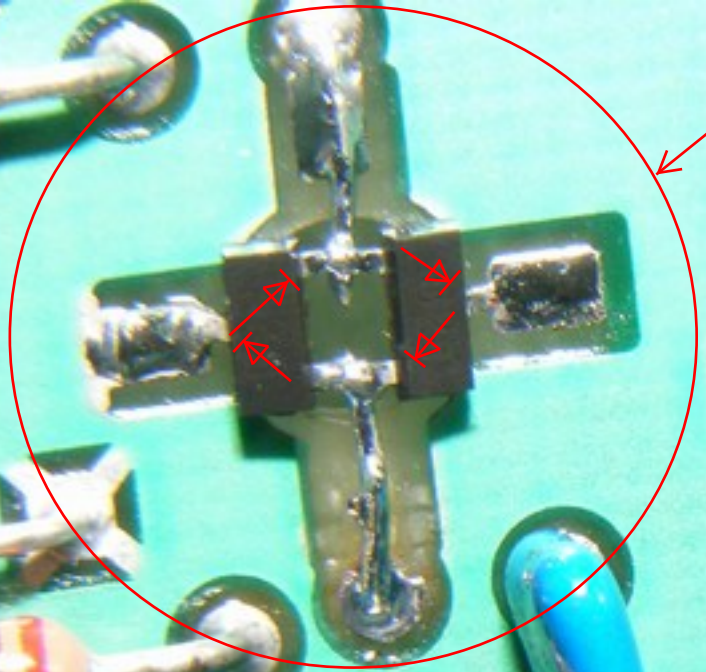


Old socket used to hold pins straight for soldering



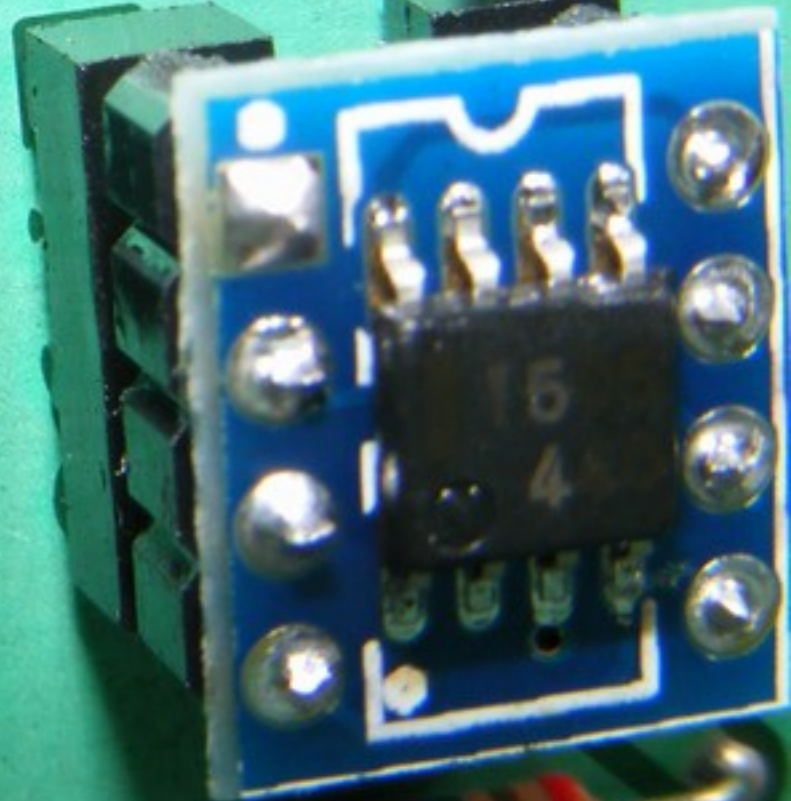


Peak Detector

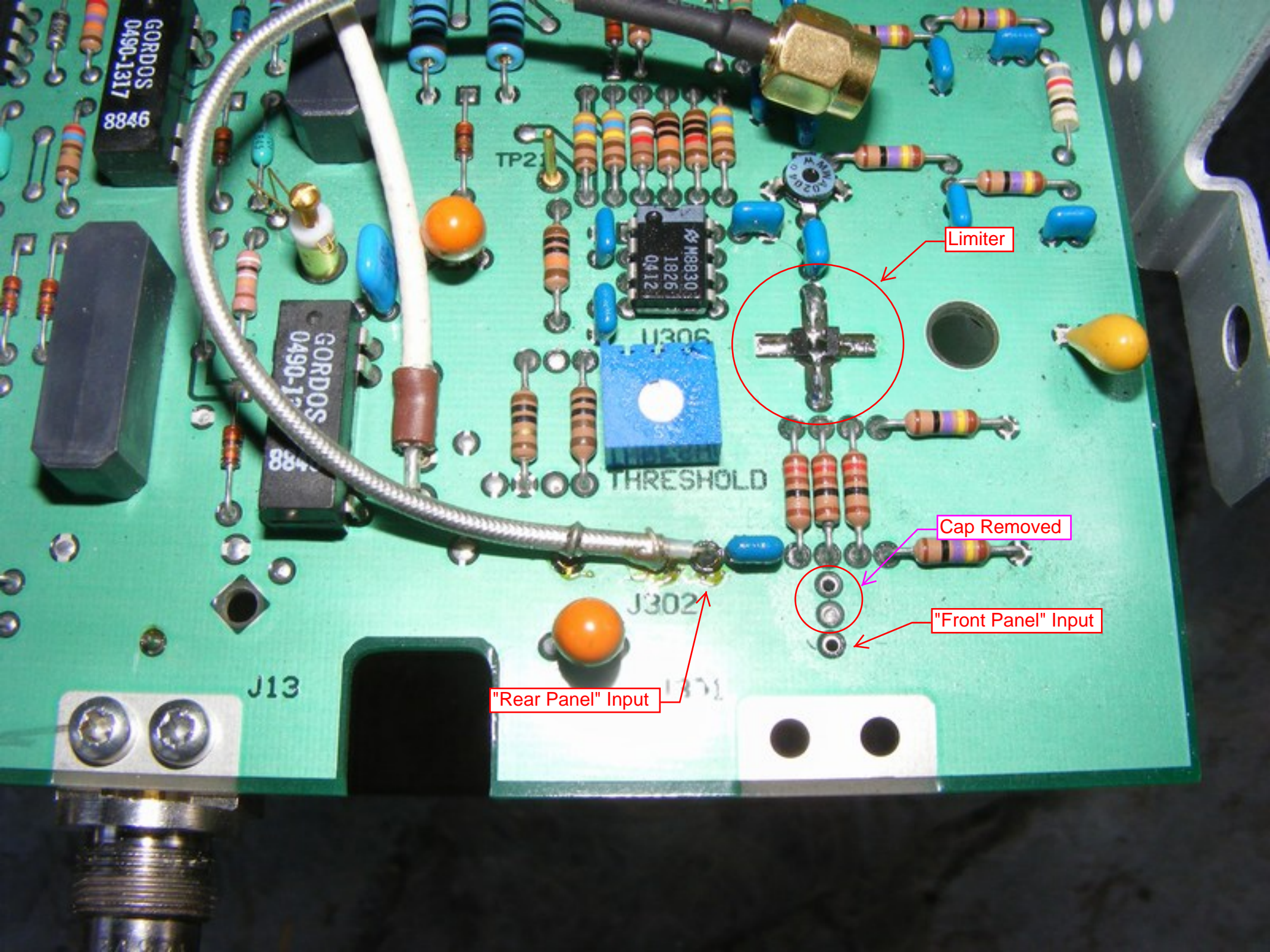


U  
302

02040  
MMW  
40







Limiter

Cap Removed

"Front Panel" Input

"Rear Panel" Input

THRESHOLD

J302

J13

1371

U306

M88301  
18251  
04121

GORDOS  
0490-1317  
8846

GORDOS  
0490-1317  
8846

TP21