

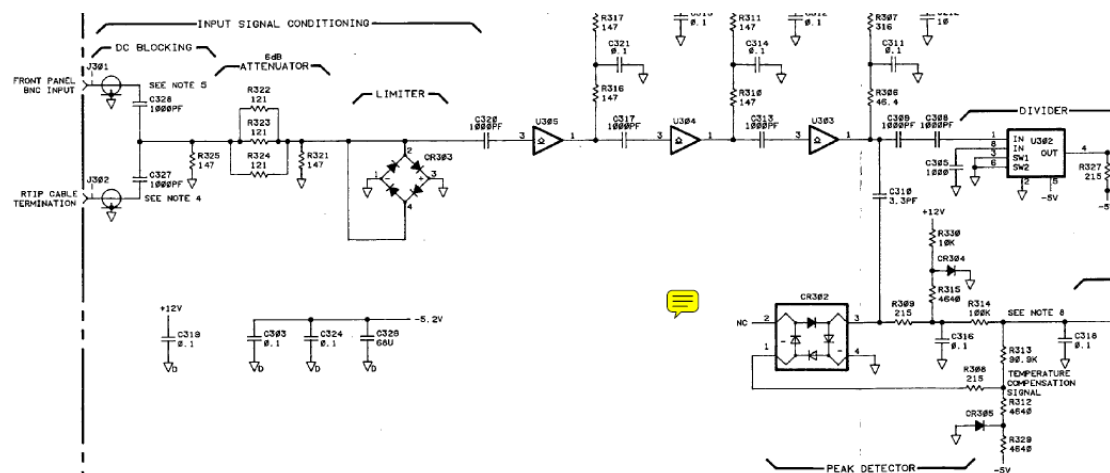
HP 5334B C-Channel retro fit.

Shopping list:

Prescaler	OEM MB506	(< 2.4GHz)
	Superior replacement μ 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

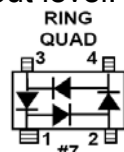
Remove the PCB from the chassis to enable decent access.
 Drill front panel to suit chosen connector.
 Choose which input you'll use and remove the DC blocking cap from the other (C327 or C328)
 Add selected diodes
 Assemble Prescaler to DIL adapter
 Attach appropriate coax interconnect to PCB
 Reassemble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



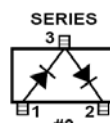
Notes

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.



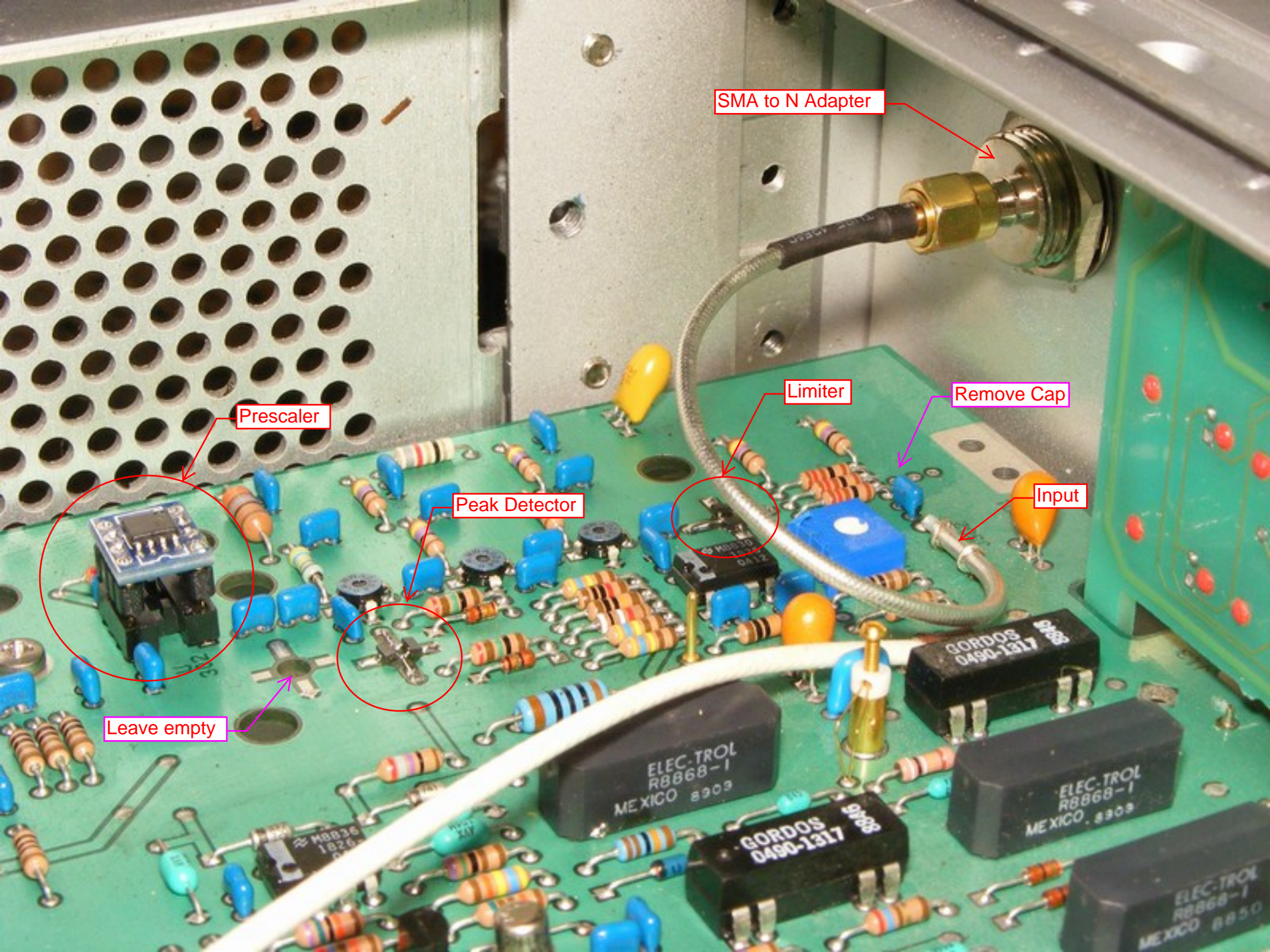
HSMS-2817



HSMS-2812

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

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



SMA to N Adapter

Prescaler

Limiter

Remove Cap

Input

Peak Detector

Leave empty

ELEC-TROL
R8868-1
MEXICO 8909

GORDOS
0490-1317

ELEC-TROL
R8868-1
MEXICO 8909

ELEC-TROL
R8868-1
MEXICO 8909







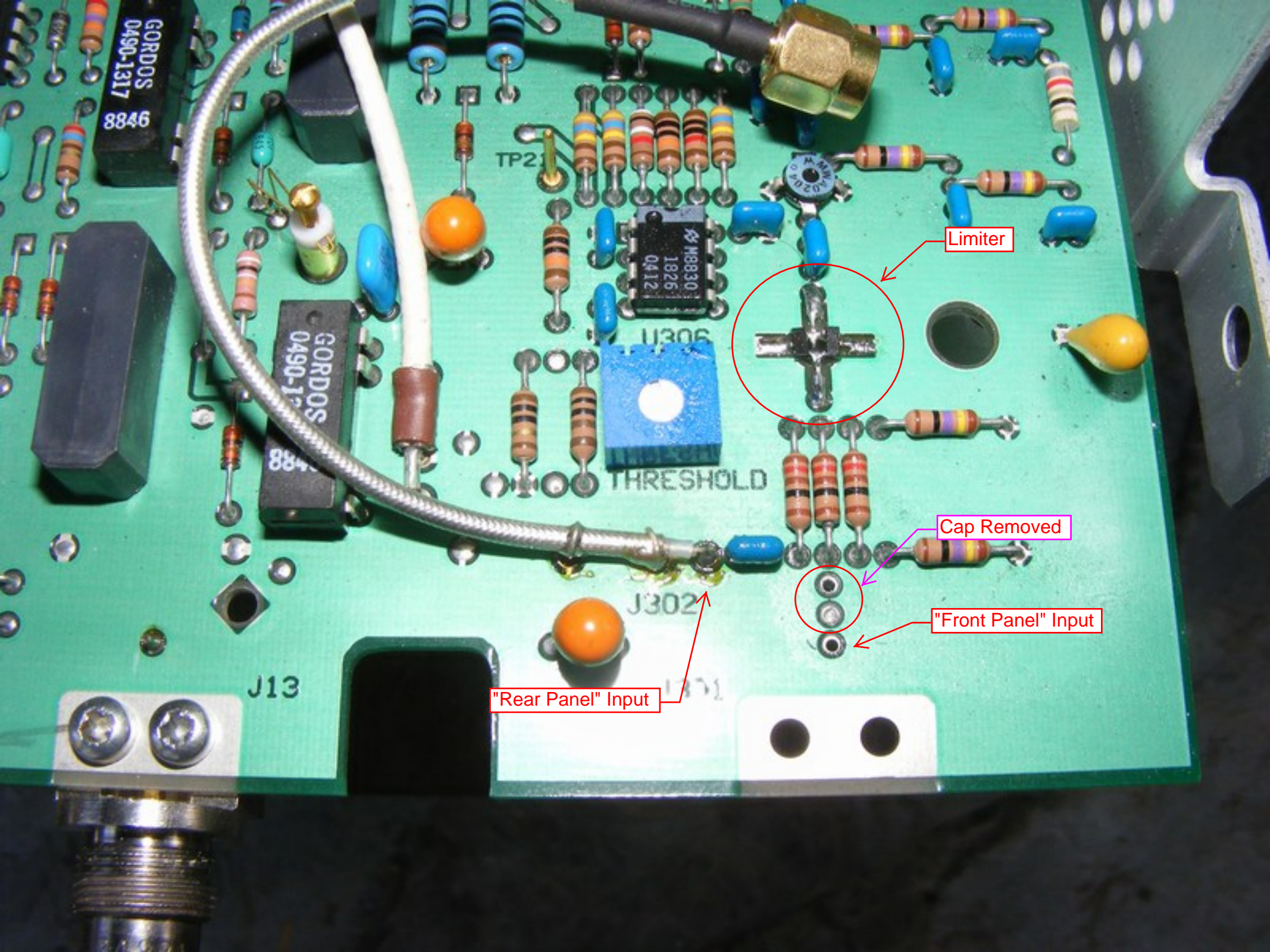
Old socket used to hold
pins straight for soldering

Peak Detector

U
302

02040
MMW

16
4



Limiter

Cap Removed

"Front Panel" Input

"Rear Panel" Input

THRESHOLD

J302

J13

TP21

GORDOS
0490-1317
8846

GORDOS
0490-1317
8846

1826
0412

U306