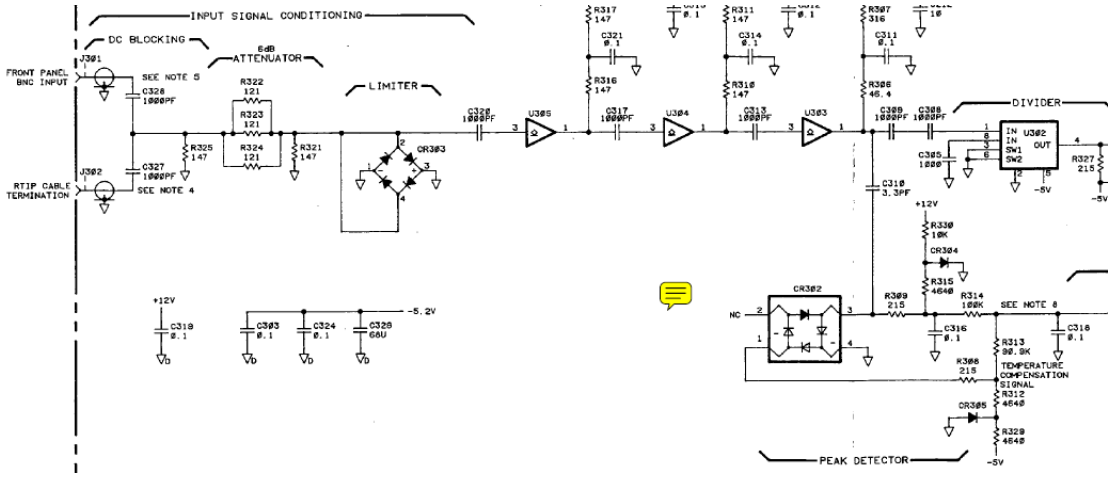
HP 5334B C-Channel retro fit.

Shopping list:

Prescaler	OEM MB506	(< 2.4GHz)
	Superior replacement µPB1505GR	(< 3GHz)
Diode Quad Rings	OEM 1900-0083	
	(5082-2831) replaced with: 5082-2303	
	Superior replacement HSMS-2817	
RF Connector		
Adapter	SO8 to DIL-8	

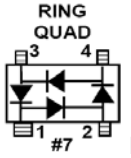
Procedure

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.

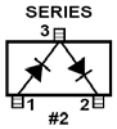


Notes

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.



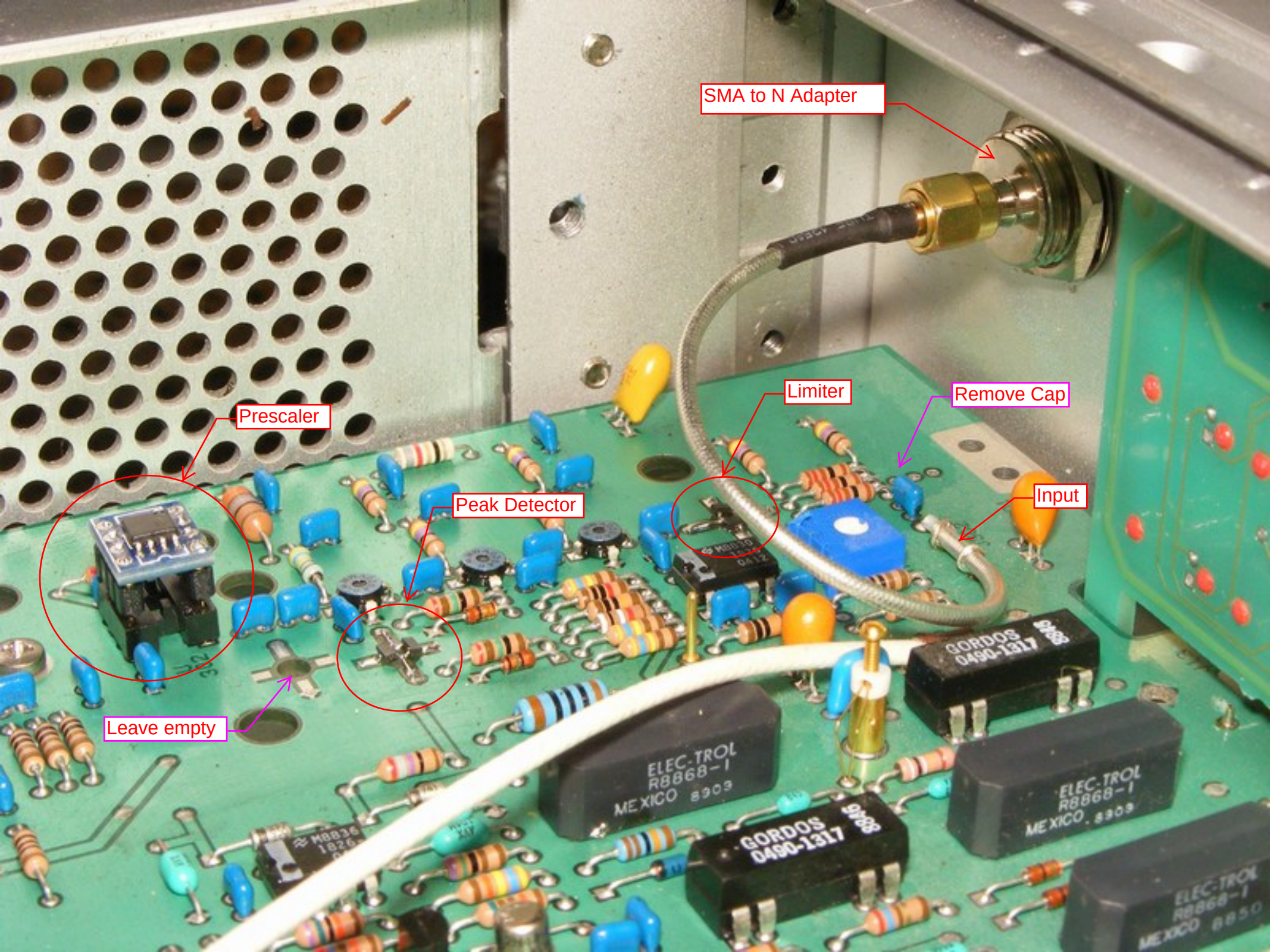
HSMS-2817



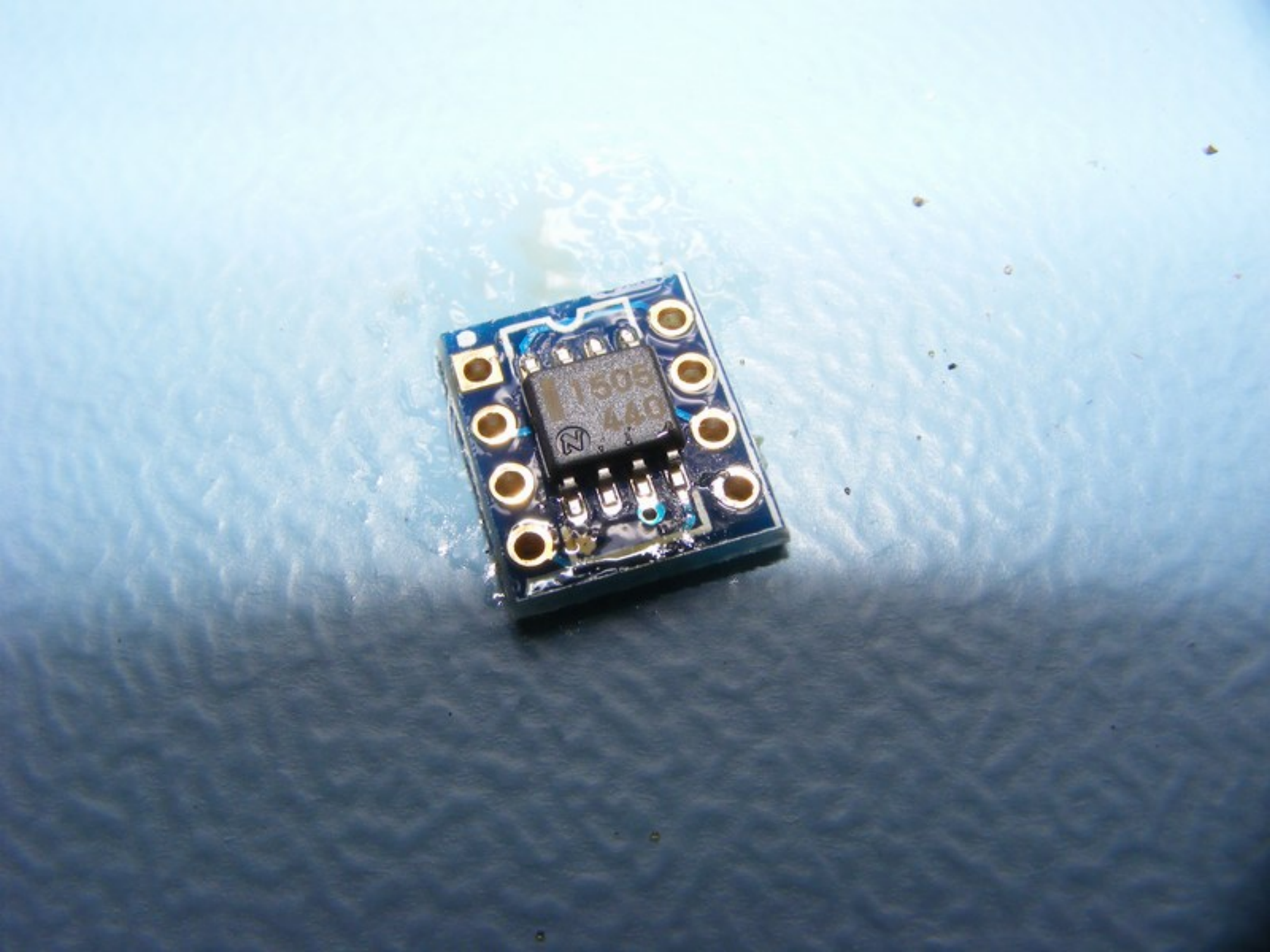
HSMS-2812

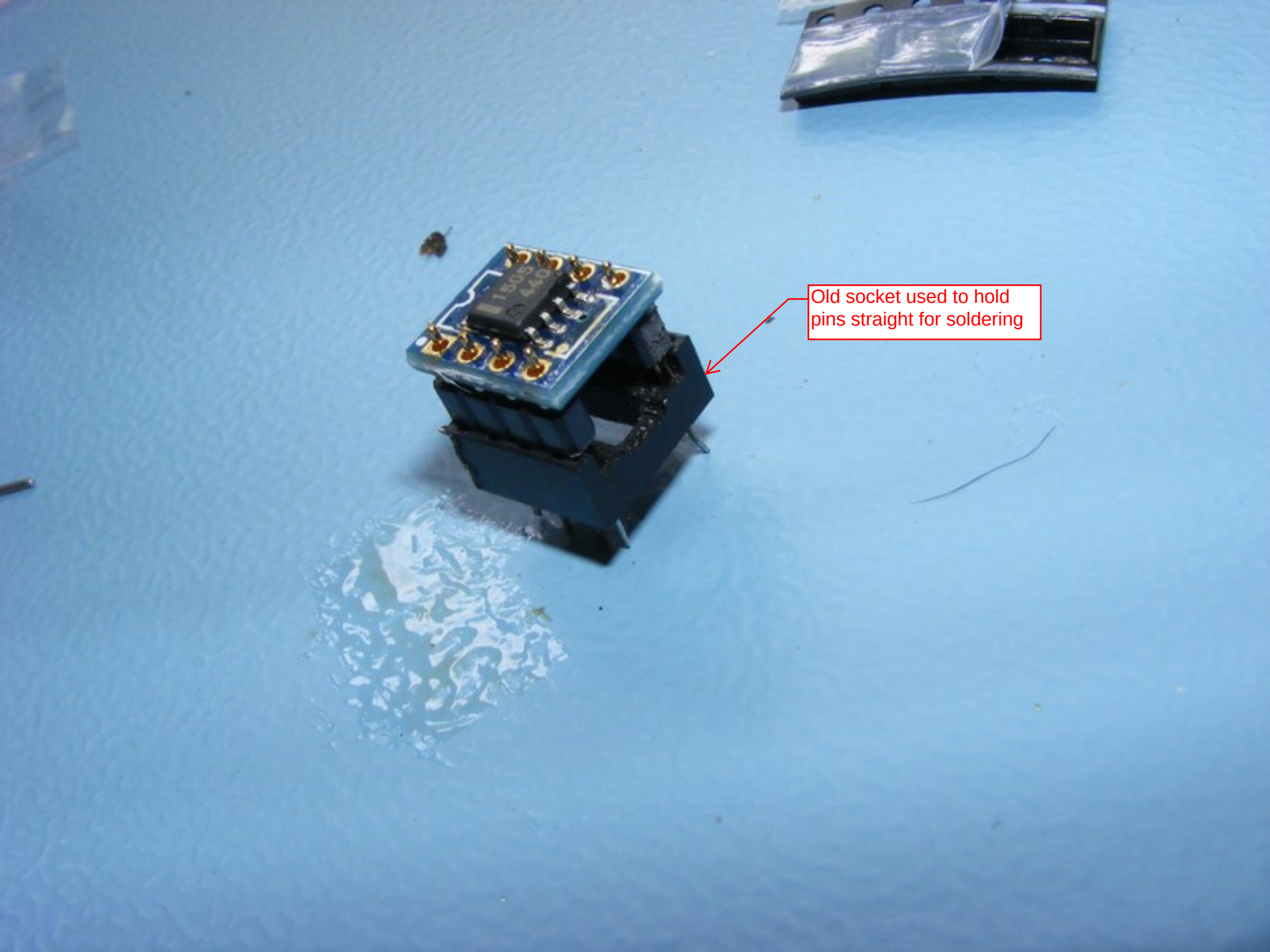
While not being a perfect fit, it's still pretty neat.
The µPB1505GR is pin compatible with the MB506, so only a package adapter is required.

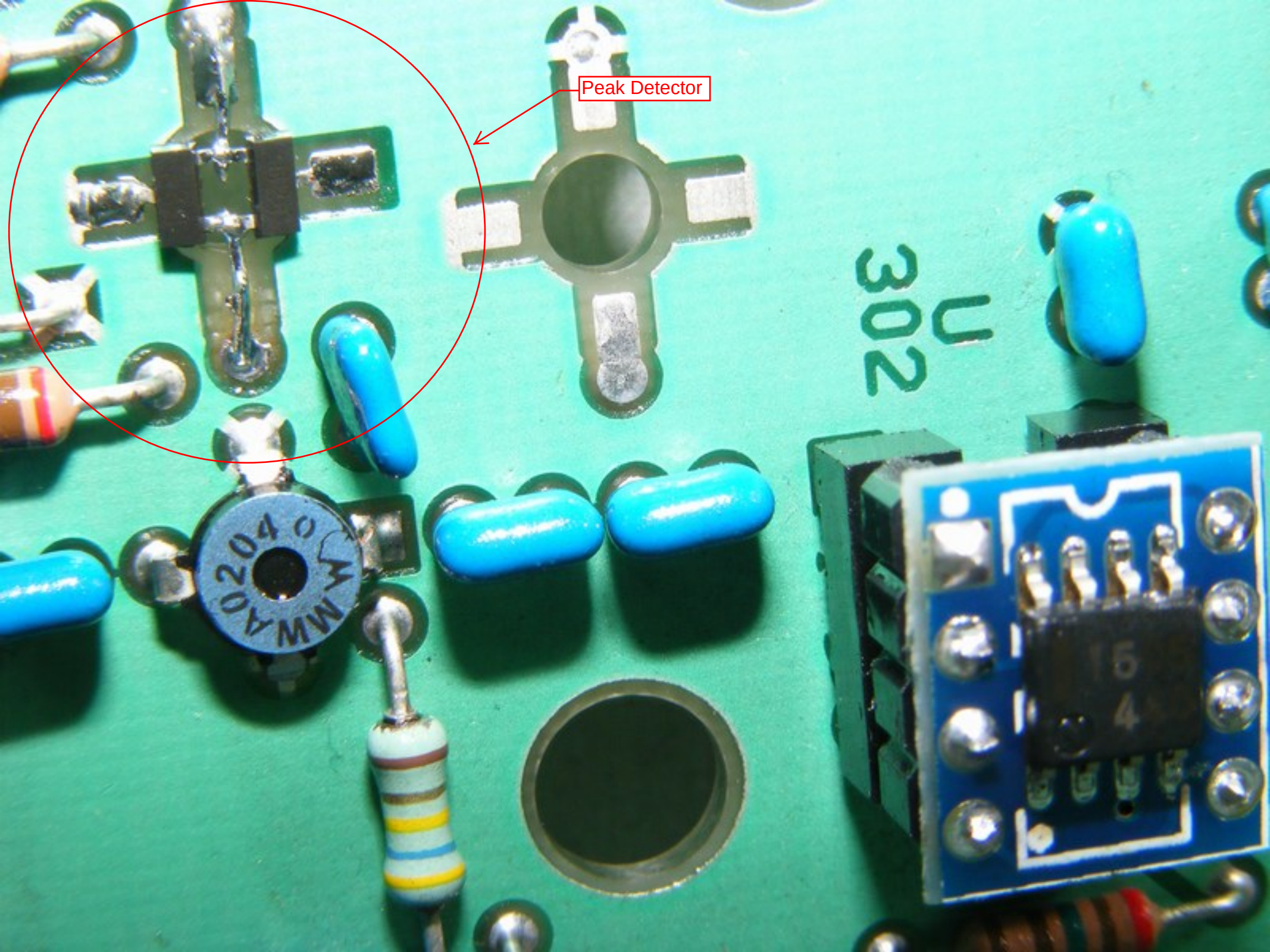
73 m0xen

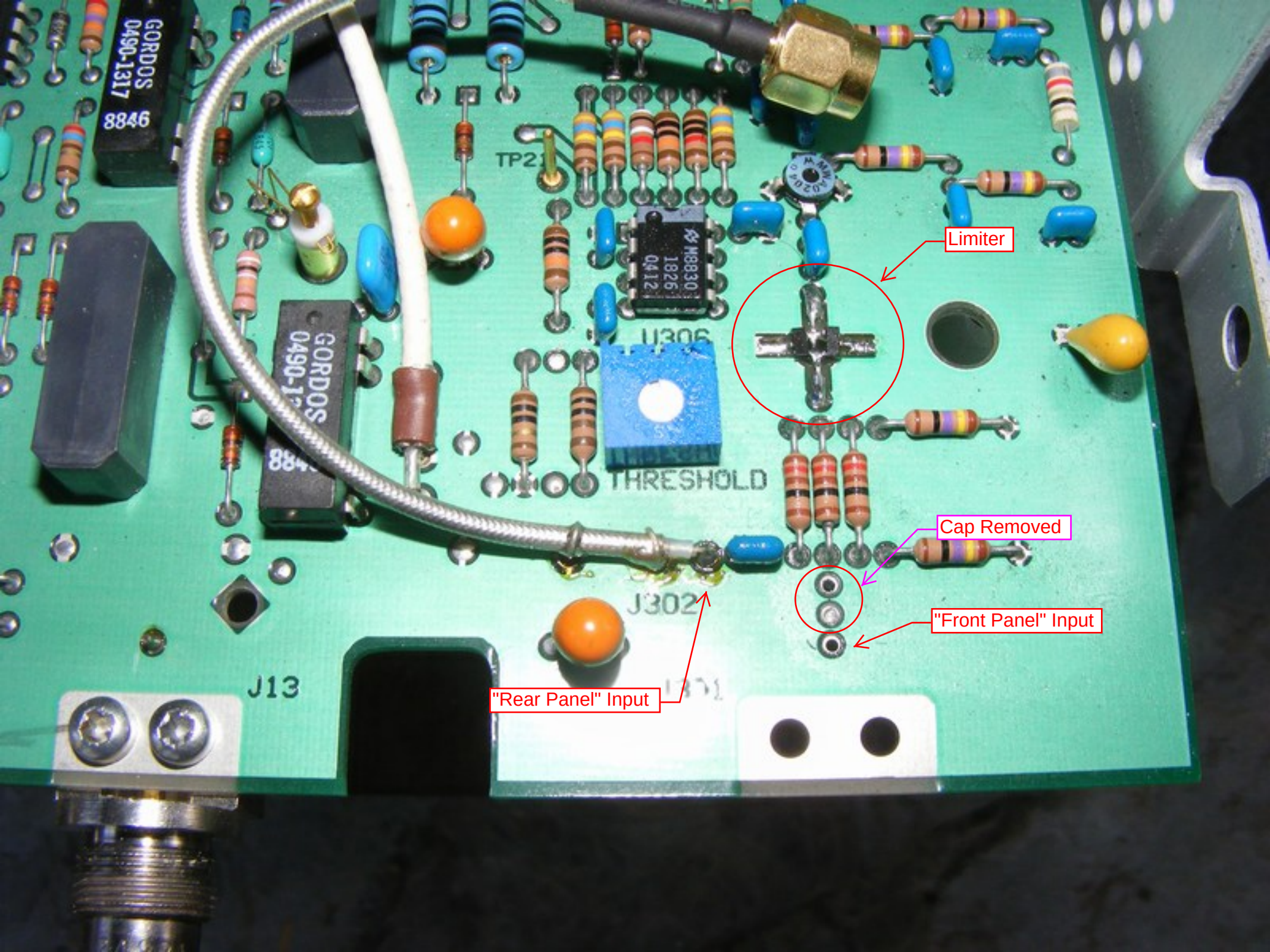

SMA to N Adapter
Limiter
Remove Cap
Prescaler
Peak Detector
Input
Leave empty
GORDOS
0490-1317
ELEC-TROL
R8868-1
MEXICO 8903


Avg 10
HSMS-2812
QTY 15
6 X VIPB




Old socket used to hold
pins straight for soldering


Peak Detector
U302
0204 0
MWA
5
4


Limiter
Cap Removed
"Front Panel" Input
"Rear Panel" Input
THRESHOLD
U306
J302
J13
TP2
GORDOS
0490-1317
8846