

/ Messages (https://groups.io/g/HP-Agilent-Keysight-equipment/messages?msgnum=115929)
/ Synthesizer module in ESG series E4435B



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Re: Synthesizer module in ESG series E4435B



2021-05-20 (https://groups.io/g/HP-Agilent-Keysight-equipment/message/115929)

I found that Leo has the module back in stock and I ordered one. The problem is fixed and the unit works fine now. The main soldering challenge is that there is a ground pad under the chip and likewise under the replacement module that requires considerable heat to remove or re-apply. The pad has six vias that go through the board and terminate in a pad on the opposite side of the board. I used a simultaneous application of a soldering iron under the board at this pad and a hot-air gun on the top. You need about four hands to accomplish this <grin>. Also, I measured the three control line states that are switched by the frequency setting of the generator as in this table:

Measured State of Control Lines as a function of Frequency:						
Line	Pin	Frequency on E4436B Display				
		1-250	250-500	500-1000	1000-2000	2000-3000
A1	8	0	1	0	0	0
A2	9	1	1	1	1	0
A3	10	1	1	1	0	1
Measured Freq out of prescaler at TN76		750-1000	250-500	500-1000	1000-2000	2000-3000
Resultant divide by ratio		8	16	8	4	2

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