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Description:	Optimized design, detailed packaging, and shielded and encapsulated composite construction	 <a href="#">Download Datasheet</a>


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Topic: Rohde & Schwarz Signal Gerator SML-01 - Need Help Repairing (Read 1281 times)

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 **Rohde & Schwarz Signal Gerator SML-01 - Need Help Repairing**

« on: July 25, 2017, 03:56:09 pm »

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Hi,

I have a Rohde & Schwarz Signal Generator SML-01. The unit is in good condition, and has a good display. However, the output is about 1/5 of what it should be at all frequency. In addition, the output signal is not very symmetrical as the amplitude is increased. As the amplitude increases, the output has a minor flattening on the negative half of the cycle at max amplitude.

The LF Signal Output is okay.

The unit passes internal calibration.

Any experience or ideas on how to repair the unit's RF Signal Output would be a great help.

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**oldway**

Super Contributor



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 **Re: Rohde & Schwarz Signal Gerator SML-01 - Need Help Repairing**

« Reply #1 on: July 25, 2017, 05:20:44 pm »

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Wellcom on the forum.

You can download the service manual here:

<https://elektrotanya.com/rohde->

[schwarz\\_sml01\\_sml02\\_sml03\\_vol2\\_signalgenerator.pdf/download.html](https://www.eevblog.com/forum/repair/rohde-schwarz-signal-generator-sml-01-need-help-repairing/msg1264532/#msg1264532)

Wait for "processing" became "get manual".

But there is no schematics....


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**Armadillo**

Super Contributor



Posts: 1725

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 **Re: Rohde & Schwarz Signal Gerator SML-01 - Need Help Repairing**

« **Reply #2 on:** July 25, 2017, 05:51:15 pm »

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Check the negative power supply voltage.

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**rshuler**

Newbie

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 **Re: Rohde & Schwarz Signal Gerator SML-01 - Need Help Repairing - Update**

« **Reply #3 on:** July 29, 2017, 01:52:39 pm »

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Hi,

While probing the pulse generator module rf path, I notice that the signal distortion was in the third stage of the rf path. I'm not sure what is causing the signal distortion.

I by-passed the pulse generate. Now the output looks better, and the signal amplitude increased; however, the signal level is now approximately, 8db low. When the output is set to 0.0 dbm, the spectrum analyzer see around -8 db.

I checked the attenuator, and it looks okay. It looks like the signal entering the attenuator is low.

Does anyone know how to calibrate the SML-01 or adjust the output power on the mainboard (before it gets to the attenuator)?


Thanks,  
Robert

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**CrazyTiger**

Contributor

Posts: 25

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 **Re: Rohde & Schwarz Signal Gerator SML-01 - Need Help Repairing**

« **Reply #4 on:** August 06, 2017, 10:35:59 pm »

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Hi,

Please do check the following:

1. Power Supply and Power Supply Cable, SML series has a crappy power supply connector cable assembly, the contact pins tends to cook from the inside increasing contact resistance.

2. Try taking the measurement directly from the output stage/mainboard of the sig.gen, usually when the sig.gen is set 0dbm, it should give at-least 10dbm or higher, if this is about there, then the problem will be most likely the pulse modulator or the attenuator.

Good Luck 😊

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