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FW: PA1ARE analyzer modifications
1 bericht

Peter Eier <peter@ph0ppl.nl>   13 april 2014 21:00
Aan: "pa7DA@veron.nl" <pa7DA@veron.nl>

Met vriendelijke groet,
Peter

Sent from my iMac

On 18/10/10 22:41, "om0im@post.sk" <om0im@post.sk> wrote:

>Hi Peter
>OK, you can send all photos an pictures to the forum. Sorry but I dont
>know how to send pictures to the forum, I am appologize.
>Dont worry about CA3140. I used this type, because it is easy to get them
>and are cheap (50 cents). NE5230 or LTC1152 are hard to get. They are
>better. With CA3140 I must null offset both ICs and must used zener
>clamping diodes.
>Check if offset is zero. Disconect input of op. ampl. from analog board,
>short input and check output voltage of all three ICs. Must be same
>voltage.
>I am tested 30years old pin diodes KA136 (Tesla product). Worked but
>BA479 was better. BAT41 is OK for VK5JST analyser, no for this one.
>Another parts are "what was at home"HI
>
>Value R and X is changing, when I tune. But at fixed freqency value is
>not changing.
>Best way how to corectly set trimers is take 1kohm resistor with short
>legs and measure resistance. Connect at output and with both trimers set
>value of this resistance. Setting of one trimer depends on setting second
>one. After each change on trimers you must perform callibration with
>pressing button and turn ON analyser. !!!After each change!!! Important.
>X part may change with freqency. You need find position of both trimers,
>where change of R part is minimum and X part around 0 or minimum change
>at all freqencies. It takes long time, but it is possible.
>
>Condensator trimer you can set, when you take condensator app 150pF,
>conect at output , set freqency between 3 and 20 MHz and with rotating
>this trimer you need get R=0. After this is that trimer corectly set.
>Look some new scans, what measured my analyser. Now it is in new case.
>73 Igor
>
>----- Originálna správa -----
>Odosielateľ: "Peter Eier" <peter@ph0ppl.nl>
>Komu: om0im@post.sk
>Dátum: nedeľa, október 17, 2010 03:23:34
>Predmet: PA1ARE analyzer modifications
>
>Hi Igor,
>

>We, Oscar (DJ0MY) and I, would like to post your findings / modifications
>on
>the PA1ARE Analyzer forum http://pa1are.forumprofi.de/ if you have no
>objections.
>
>Oscar started this forum a couple of months ago as you might know. Your
>findings / modifications are very important for all those people out there
>who are working on this project and are having trouble getting it to work.
>
>Hoop to hear from you soon. How is the analyzer doing now ?
>
>73 de PHOPPL - Peter
>
>FYI - Just recently new information became available from a couple of
>German
>HAMs, take a look at forum and look for post by Eric.
>
>
>
>On 27-08-10 22:14, "om0im@post.sk" <om0im@post.sk> wrote:
>
>> Hello Peter
>> I am found this page
>> http://homepages.ipact.nl/~pa1are/analyzer2/analyzer.html. It is in
>>Dutch. I
>> am used online WEB translator. I think, Arend wrote somethink about
>> oscillations of emitor followers. May be.
>> When I build my analyser, self oscillations was horibble. I try change
>> transistors, but not helped me. Only when I used SMD resistor at
>>emitors,
>> oscillations gone out. 1 k ohms are at "sinus and "cosinus" and both are
>> connected parallely and 470 ohms is at output transistor. Look at
>>pictures top
>> an bottom side. Switching "sinus" and "cosinus" is very simple.see
>>diagram.
>> When I simulated output filter in EWB, cut freqency was at 25MHz. With
>>new
>> values is at 32MHz. At input is 100nF condensator - important for low
>> freqencies.Value of termination resistor 56 ohm you need found. At
>>first I am
>> used trimer, set right value, measured a used resistor with this value.
>> Right value is important at high freqencies above 27MHz.
>> Pin diodes are "what was at home".Sorry.HI
>> May be it is short descriptions about hardware. About correct setting I
>>write
>> you later.
>>
>> Ahoj Igor OM0IM
>> _____
>>
>> http://fotky.sme.sk - Ukazte svoje najlepsie fotky svetu
>
>--
>Met vriendelijke groet,
>Peter
>
>Sent from my Macbook
>
>
>
>_____

>

>

>http://diplomovka.sme.sk - Odmenujeme vale diplomove prace.

>

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6 bijlagen

50ohm long leg.JPG
105K

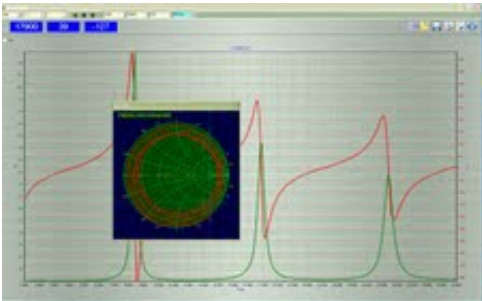**200ohm long leg.JPG**
108K
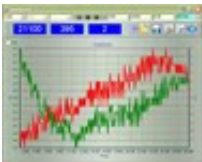
392ohm.JPG
120K

koax RG58.JPG
343K
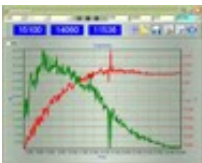
open.JPG
114K

short.JPG
85K