

Miniature RF Step Attenuator Template 1:1 Scale Printout Tips

In order to have the attenuator switch plungers line up properly with the holes in the enclosure lid it is critically important that the template file be printed out precisely to 1:1 scale. This can be confirmed by measuring the 100mm X/Y scale check lines provided in the printout. There are no doubt many alternative methods depending on the use of different combinations of operating systems, software and printers that can be followed to print the template file to the proper 1:1 scale. Here are two different methods using either the jpg graphics file type or alternately the public domain pdf file type that are known to work using my Brother HL-2270DW laser printer and the Windows 10 operating system platform:

(1)-----

File: SMA_StepAttenDrillTemplateRev1.jpg

Using *XnView version 2.49.5* freeware:

Select: ***Print>Layout tab>Page Layout*** then select ***Single - Scale***.

Set: ***X Scale*** and ***Y Scale*** both to ***4.00***

and print:

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Finally ruler measure the 100mm X/Y scale check lines and confirm within **100+/-0.5mm**

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(2)-----

File: SMA_StepAttenDrillTemplateRev1.pdf

Using ***PDF X-Change version 2.5*** freeware:

Select: ***Print***

Under: ***Page Scaling***

Set: ***Scaling Type*** to ***Custom scale***

Set: ***Page zoom*** to ***100.0%***

Select: ***Auto-rotate sheets*** and ***Auto-centre pages in sheets***

Clear Select: ***Choose paper source by PDF-page size***

and print.

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Finally ruler measure the 100mm X/Y scale check lines and confirm within **100+/-0.5mm**

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