

346b Noise Source Manual

00346-90148

OSM EN

General

Information

Introduction

Introduction This
manual contains

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346b-noise-source-manual

operating and
service
information for
the Agilent
Technologies
model 346A,
346B, and 346C
Noise Sources.
Included in the
manual is
information
necessary to

Page 2/146

operate the noise sources.

Noise Sources 2
99 - Test
Equipment
Solutions

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KF5OBS # 33:
Filter

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Measurement
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~~using noise~~
~~source with~~
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~~Noise Source~~
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Source

#546b TinySA
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generator -

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Figure | Select
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Source |

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~~Keysight~~
~~Technologies~~
Finding RF Noise
Sources Part 1
Earth is Flat! -
100% PROOF!!
AMAZING!!
(Flat Earth
Comedy) Nova
Documentary -
The Universe is
Endless - Space

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Documentary
2020 ~~A Walk on
Venus (CGI from
BBC TV series
"Space
Odyssey")~~

#582b

Resolution
Bandwidth and
Noise Floor in
Spectrum
Analyzers

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Ferrite, chokes,
and RFI #178:
Build, test, use
the RF Noise
Source on the
Ham-It-Up RTL-
SDR
Upconverter
RTL SDR Front
End Filter
Demonstration
Measuring

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antenna return
loss with RSPduo
#289 Fluke
5200A
Programmable
AC Calibrator
Repair Part 1
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Tutorial \u0026amp;
Configuration

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M50 User's
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Noise Figure |
Select the Right
Noise Source for
Your
Measurement |
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How to Set
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For Water
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Know How...
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Course - Learn
Ethical Hacking
in 10 Hours |

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Ethical Hacking Tutorial | Edureka

The Basics of
Noise -
Oscilloscope
How To - The
2-Minute Guru
(s1e10) Ham
Radio - Eliminate
computer
interference

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noise while using
RIG control 346b
Noise Source
Manual
Operating and
Service Manual
Agilent
346A/B/C Noise
Source
(Including
Options 001,
002, and 004)

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Serial Numbers

This manual applies directly to instruments with serial numbers prefixed 4124A and below.

Instruments with serial prefixes 4124A and above are

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supplied with the
noise source
ENR data
preloaded on
diskette - see
Chapters 3 & 4.
With changes
described in
Chapter 2
Manual Changes,
this ...

Operating and
Service Manual
Agilent
346A/B/C Noise
Source
Read Book 346b
Noise Source
Manual 346A,
346B, and 346C
Noise Sources.
Included in the
manual is

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information
necessary to
operate the noise
sources.

Specifications

The

“ Specifications -
Table 1-1 ” on
page 3, page 4,
and page 5 are
performance
standards or

Page 20/146

limits against
which the noise
source may be
tested.

346b Noise
Source Manual -
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The Keysight
346A/B/C noise
source produces
noise output

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(power-on)
when +28 V is
applied. When it
is off, there is
residual noise
due to thermal
agitation in the
noise source
(power-off).
These two noise
levels are used
to measure the

gain and added noise of the device under test, and consequently, its noise figure.

Keysight
346A/B/C Noise
Source
(Including
Options 001 and

Page 23/146

004)

The low SWR of the noise source reduces a major source of measurement uncertainty; reflections of test signals. The 346B's high ENR, low SWR, and variety of

Page 24/146

connectors make it a general-purpose noise source. Add special option H01 for high ENR (21 dB typical) to measure high noise figure devices, or option H42 for

measuring Direct
Broadcast
Satellite (DBS)
low noise block
converters.

346B Noise
Source, 10 MHz
to 18 GHz,
nominal ENR 15
dB ...

Keysight 346A,

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346B, N4000A,
and N4001A
Installation Note
11 Introduction
Due to a change
of manufacturer
of the noise
diodes,
adjustment of
bias current is
now necessary
to ensure that

Page 27/146

the noise source performs within its specified ENR range. This document is supplied with all the following replacement parts.

Keysight
Technologies

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Noise Sources:
346A, 346B,
N4000A ...
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General

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Information
Introduction
Introduction This
manual contains
operating and
service
information for
the Agilent
Technologies
model 346A,
346B, and 346C
Noise Sources.

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Included in the manual is information necessary to operate the noise sources.

AGILENT
TECHNOLOGIES
346A
OPERATING
AND SERVICE

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MANUAL Pdf ...

346 Noise

Source Family |

Keysight

Overview: This

series of

broadband noise

sources has been

designed to

cover the

majority of

measurement

Page 34/146

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applications with
a range of
frequencies,
Excess Noise
Ratio (ENR) and
coaxial
connector types.
Here ' s the page
we think you
wanted.

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Source Manual
necessity for
several sources
at different
frequency bands.
The low SWR of
the noise source
reduces a major
source of
measurement
uncertainty;
reflections of

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test signals.
Keysight /
Agilent 346B
Noise Source, 10
MHz to 18 GHz
... Agilent (Hewl
ett-Packard)
346B Noise
Source, 10 MHz
to 18 GHz,
Nominal ENR 15
dB The Keysight

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346B is a
general-purpose
...

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Source Manual
The Keysight
346A/B/C noise

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source produces noise output (power-on) when +28 V is applied. When it is off, there is residual noise due to thermal agitation in the noise source (power-off). These two noise

levels are used to measure the gain and added noise of the device under test, and consequently, its noise figure.

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Options 001 and
004)
Instruments with
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above are
supplied with the
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Agilent (Hewlett-
Packard) 346B
Noise Source, 10
MHz to 18 GHz,
Nominal ENR 15
dB The Keysight
346B is a
general-purpose
broadband noise
source that
eliminates the

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need for several sources at varying frequencies. Excess noise ratios for each 1 GHz interval from 10 MHz to 18 GHz are printed on the noise source.

Agilent (Hewlett-
Packard) 346B
Noise Source, 10
MHz to 18 ...
The NC346
Series
waveguide is
designed for
narrow-band
high ENR noise
figure
measurement

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applications. For high power waveguide systems the series has an optional built-in isolator to provides very low VSWR and superior flatness, typically $\leq \pm$

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1.5 dB. NC3000
Coaxial 10 MHz
to 67 GHz
AWGN

Noisecom |
Calibrated
Sources
HP 346B HP
346C HP R347B
HP Q347B Noise
Sources 2 99

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Noise Figure
Meters HP
R/Q347B H P R3
47 B and Q 3 47
B Noise Sources
Partial
Specifications
(See T echnical
Data Sheet for
complete
specifications.)
Frequency

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Range: HP
R347B: 26.5 to
40 GHz HP
Q347B: 33 to 50
GHz Excess
Noise Ratio
(ENR) Range:
HP R347B: 10 to
13 dB HP
Q347B: 10 to 13
dB (33 to 42
GHz); 6 to 12.5

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dB (42 to 50
GHz) Maximum

...

Noise Sources 2

99 - Test

Equipment

Solutions

noise power of

source alone ()

$2 \ 22 \ 2 \ sc \ s \ n \ n \ s$

$s \ c \ s \ n \ n \ s \ n \ s \ n \ t \ n \ s$

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$v_{in} = v_{n1} + v_{n2}$
 $v_{n1} = -v_{n2}$
 $v_{n1} = 0$ since v_{n1} is not correlated with v_{n2} or v_{n3} so:
 $F = 1 + \frac{v_{n1}^2}{v_{n2}^2}$
 $v_{n1}^2 = 4kT \cdot G_s B$
 where G_s is the source conductance and
 $v_{n2}^2 = 4kT \cdot R_N B$

B where R_N is a fictitious equivalent noise resistance that represents v_n^2 . can be represented by a correlated (with v) and uncorrelated part. in $n \dots$

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necessity for several
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frequency bands. The
low SWR of the noise
source reduces a major
source of measurement
uncertainty; reflections
of test signals. Keysight

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/ Agilent 346B Noise
Source, 10 MHz to 18
GHz ... Agilent
(Hewlett-Packard)
346B Noise Source, 10
MHz to 18 GHz,
Nominal ENR 15 dB
The Keysight 346B is a
general-purpose ...

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Source Manual 346A,
346B, and 346C Noise
Sources. Included in the
manual is information
necessary to operate the
noise sources.

Specifications The
“ Specifications - Table
1-1 ” on page 3, page 4,
and page 5 are
performance standards
or limits against which

the noise source may be tested.

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Agilent (Hewlett- Packard) 346B

*Noise Source, 10
MHz to 18 ...*

The NC346 Series waveguide is designed for narrow-band high ENR noise figure measurement applications. For high power waveguide systems the series has an optional built-in

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isolator to provides
very low VSWR and
superior flatness,
typically $\leq \pm 1.5$
dB. NC3000 Coaxial
10 MHz to 67 GHz
AWGN

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KF5OBS #33: Filter Measurement

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using Noise

Source #188 ~~using noise source with spectrum analyzer~~

How to Comb Bind

Using the BG7TBL

Noise Source to

Characterize a HF

Filter #049 Noise

Source 1-3500 MHz

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Filter Demonstration
**Measuring antenna
return loss with
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Fluke 5200A
Programmable AC
Calibrator Repair
Part 1 ePSXe 2.0.5
Windows Emulator**

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Noise Figure |
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Noise Source

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(Including Options
001, 002, and 004)
Serial Numbers This
manual applies
directly to
instruments with
serial numbers
prefixed 4124A and
below. Instruments
with serial prefixes
4124A and above
are supplied with
the noise source

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ENR data preloaded
on diskette - see
Chapters 3 & 4.
With changes
described in
Chapter 2 Manual
Changes, this ...

*Operating and
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Noise Source
Read Book 346b*

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Noise Source
Manual 346A, 346B,
and 346C Noise
Sources. Included in
the manual is
information
necessary to
operate the noise
sources.

Specifications The
“Specifications -
Table 1-1” on page
3, page 4, and page

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5 are performance standards or limits against which the noise source may be tested.

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The Keysight
346A/B/C noise
source produces
noise output (power-

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on) when +28 V is applied. When it is off, there is residual noise due to thermal agitation in the noise source (power-off). These two noise levels are used to measure the gain and added noise of the device under test, and consequently, its

noise figure.

*Keysight 346A/B/C
Noise Source
(Including Options
001 and 004)*

The low SWR of the noise source reduces a major source of measurement uncertainty; reflections of test

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signals. The 346B's high ENR, low SWR, and variety of connectors make it a general-purpose noise source. Add special option H01 for high ENR (21 dB typical) to measure high noise figure devices, or option H42 for measuring Direct Broadcast

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Satellite (DBS) low
noise block
converters.

*346B Noise Source,
10 MHz to 18 GHz,
nominal ENR 15 dB*

...

Keysight 346A,
346B, N4000A, and
N4001A Installation
Note 11 Introduction
Due to a change of

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manufacturer of the noise diodes, adjustment of bias current is now necessary to ensure that the noise source performs within its specified ENR range. This document is supplied with all the following replacement parts.

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Technologies Noise
Sources: 346A,
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Introduction This
manual contains
operating and
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Technologies model 346A, 346B, and 346C Noise Sources. Included in the manual is information necessary to operate the noise sources.

***AGILENT
TECHNOLOGIES
346A OPERATING***

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AND SERVICE

MANUAL Pdf ...

346 Noise Source

Family | Keysight

Overview: This

series of broadband

noise sources has

been designed to

cover the majority of

measurement

applications with a

range of

frequencies, Excess

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Noise Ratio (ENR)
and coaxial
connector types.
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think you wanted.

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346B Noise Source,
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Keysight 346A/B/C
noise source
produces noise
output (power-on)
when +28 V is
applied. When it is
off, there is residual
noise due to thermal
agitation in the
noise source (power-
off). These two
noise levels are
used to measure the

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gain and added noise of the device under test, and consequently, its noise figure.

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Options 001 and
004) Instruments
with serial prefixes
4124A and above
are supplied with
the ...

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Agilent (Hewlett-
Packard) 346B

Noise Source, 10

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346b-noise-source-manual

MHz to 18 GHz,
Nominal ENR 15 dB
The Keysight 346B
is a general-purpose
broadband noise
source that
eliminates the need
for several sources
at varying
frequencies. Excess
noise ratios for each
1 GHz interval from
10 MHz to 18 GHz

Page 113/146

are printed on the noise source.

*Agilent (Hewlett-Packard) 346B
Noise Source, 10
MHz to 18 ...*

The NC346 Series waveguide is designed for narrow-band high ENR noise figure measurement

Page 114/146

applications. For high power waveguide systems the series has an optional built-in isolator to provides very low VSWR and superior flatness, typically $\leq \pm 1.5$ dB. NC3000 Coaxial 10 MHz to 67 GHz AWGN

Noisecom |
Calibrated Sources
HP 346B HP 346C
HP R347B HP
Q347B Noise
Sources 2 99 Noise
Figure Meters HP
R/Q347B H P R3 47
B and Q 3 47 B
Noise Sources
Partial
Specifications (See
T echnical Data

Page 116/146

Sheet for complete specifications.)

Frequency Range:

HP R347B: 26.5 to

40 GHz HP Q347B:

33 to 50 GHz

Excess Noise Ratio

(ENR) Range: HP

R347B: 10 to 13 dB

HP Q347B: 10 to 13

dB (33 to 42 GHz);

6 to 12.5 dB (42 to

50 GHz) Maximum

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...

Noise Sources 2 99
- Test Equipment
Solutions

noise power of
source alone () 2
22 2 sc s n n s scs n
ns sntns iiivY ii ivY
iiivY =? + + =+++ ? =0
since is not
correlated with in or
v n so: $F = 1 + ()in$

Page 118/146

$v_n^2 = 4kT_o G_s B$ here, $i_n^2 = 4kT_o R_N B$
 where G_s is the source conductance and R_N is a fictitious equivalent noise resistance that represents v_n^2 . i_n^2 can be represented by a correlated (with v_n) and uncorrelated

part. in n ...

346 Noise Source
Family | Keysight
Overview: This
series of broadband
noise sources has
been designed to
cover the majority of
measurement
applications with a
range of

Page 120/146

frequencies, Excess
Noise Ratio (ENR)
and coaxial
connector types.
Here's the page we
think you wanted.

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Source Manual*

The Keysight
346A/B/C noise
source produces noise
Page 121/146

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output (power-on)
when +28 V is
applied. When it is
off, there is residual
noise due to thermal
agitation in the noise
source (power-off).
These two noise levels
are used to measure
the gain and added
noise of the device
under test, and
consequently, its noise

figure.

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346A/B/C Noise
Source (Including
Options 001 and 004)
Instruments with
serial prefixes 4124A
and above are
supplied with the ...
*346B Noise Source,
10 MHz to 18 GHz,
nominal ENR 15 dB ...*
Agilent (Hewlett-

Page 124/146

Packard) 346B Noise Source, 10 MHz to 18 GHz, Nominal ENR 15 dB The Keysight 346B is a general-purpose broadband noise source that eliminates the need for several sources at varying frequencies. Excess noise ratios for each 1 GHz interval from 10 MHz to 18

Page 125/146

GHz are printed on
the noise source.

Title:

00346-90148_OSM_EN

Author: Keysight

Technologies Created

Date:

20180726130641Z

Operating and Service

Manual Agilent

346A/B/C Noise Source

(Including Options 001,

002, and 004) Serial
Numbers This manual
applies directly to
instruments with serial
numbers prefixed
4124A and below.
Instruments with serial
prefixes 4124A and
above are supplied with
the noise source ENR
data preloaded on
diskette - see Chapters 3
& 4. With changes
described in Chapter 2

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Manual Changes, this ...
Keysight 346A, 346B,
N4000A, and N4001A
Installation Note 11
Introduction Due to a
change of manufacturer
of the noise diodes,
adjustment of bias
current is now necessary
to ensure that the noise
source performs within
its specified ENR range.
This document is
supplied with all the

Page 128/146

following replacement parts.

346b Noise Source

Manual The Keysight

346A/B/C noise source

produces noise output

(power-on) when +28 V

is applied. When it is

off, there is residual

noise due to thermal

agitation in the noise

source (power-off).

These two noise levels

are used to measure the

gain and added noise of the device under test, and consequently, its noise figure.

KF5OBS #33: Filter Measurement using Noise Source #188
~~using noise source with spectrum analyzer~~ **How to Comb Bind** Using the BG7TBL Noise Source to Characterize a HF Filter #049 ~~Noise~~

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~~Source 1-3500 MHz~~
~~Review~~ Review of a
Working Chinese DC to
2 GHz Noise Source

#546b TinySA

Measuring Filter with
Noise Source **RF Noise**
generator - PROJECT

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Can a Noise Source
Help Electronics

Testing? ~~Noise Figure~~ |

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~~Select the Right Noise
Source | Keysight
Technologies Finding
RF Noise Sources Part 1
*Earth is Flat! - 100%
PROOF!! AMAZING!!
(Flat Earth Comedy)
Nova Documentary -
The Universe is Endless
- Space Documentary
2020 A Walk on Venus
(CGI from BBC TV
series "Space
Odyssey")*~~

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#582b Resolution
Bandwidth and Noise
Floor in Spectrum
Analyzers

Ferrite, chokes, and RFI

#178: Build, test, use
the RF Noise Source on
the Ham-It-Up RTL-
SDR Upconverter RTL
SDR Front End Filter
Demonstration

**Measuring antenna
return loss with
RSPduo #289 Fluke**

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**5200A Programmable
AC Calibrator Repair
Part 1 ePSXe 2.0.5
Windows Emulator
Setup Tutorial \u0026
Configuration Guide |
Play PS1 Games On
Your PC Canon EOS
M50 User's Guide
How to Tutorial**

Noise Figure | Select the
Right Noise Source for
Your Measurement |
Keysight Technologies

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How to Set Sunfar
Inverter For Water
Cooling Spindle? Know
How... 346: iOS 11

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in 10 Hours | Ethical
Hacking Tutorial |
Edureka**

The Basics of Noise -
Oscilloscope How To -
The 2-Minute Guru
(s1e10) Ham Radio -

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Eliminate computer
interference noise while
using RIG control *346b*
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Keysight Technologies
Noise Sources: 346A,
346B, N4000A ...
HP 346B HP 346C HP
R347B HP Q347B
Noise Sources 2 99
Noise Figure Meters HP
R/Q347B H P R3 47 B
and Q 3 47 B Noise
Sources Partial
Specifications (See T
Page 138/146*

echnical Data Sheet for
complete
specifications.)

Frequency Range: HP

R347B: 26.5 to 40 GHz

HP Q347B: 33 to 50

GHz Excess Noise Ratio

(ENR) Range: HP

R347B: 10 to 13 dB HP

Q347B: 10 to 13 dB (33

to 42 GHz); 6 to 12.5

dB (42 to 50 GHz)

Maximum ...

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accompany you
when having extra
time. It will not
waste your time.
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 2 sc s n n s scs n ns
 sntns iiivY ii ivY
 iiivY =? + + =+++ ?

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$= 0$ since i_s is not correlated with i_n or v_n so: $F = 1 + \frac{v_n^2}{v_s^2}$ here, $v_s^2 = 4kTB$ where G_s is the source conductance and $v_n^2 = 4kTB R_N$ where R_N is a fictitious equivalent noise resistance that represents v_n^2 . can

be represented by a
correlated (with v)
and uncorrelated
part. in n ...

*346b Noise Source
Manual - beta.acikra
dyo.com.tr*

The low SWR of the
noise source reduces
a major source of
measurement

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uncertainty;
reflections of test
signals. The 346B's
high ENR, low
SWR, and variety of
connectors make it a
general-purpose
noise source. Add
special option H01
for high ENR (21 dB
typical) to measure
high noise figure

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devices, or option
H42 for measuring
Direct Broadcast
Satellite (DBS) low
noise block
converters.
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