

RXStats

Receiver System Statistical Calculator by TSV Engineering

RXStats is a receiver system statistical simulator for general purpose receiver systems. Up to eight stages may be entered for statistical analysis of gain, noise figure, and intercept point.

RXStats simulates:

- System Gain
- System Noise Figure
- System Third Order Intercept Point
- System Intermodulation Rejection
- System Sensitivity

RXStats system blocks:

- Amplifier
- Mixer
- Attenuator
- Filter

RXStats determines where a design is centered and which system blocks are likely to cause specification compliance issues. This is critical in today's high volume manufacturing of wireless products.

RXStats calculates minimum, maximum, mean, and standard deviation values for receiver system parameters. Up to 32,766 systems may be simulated with each system having up to eight blocks. Expected yield may be calculated by comparing the results of each system simulation to the user-defined goals.

Statistical data for each stage may have either a uniform (flat) or normal (Gaussian) distribution.

While **RXStats** is menu-driven and easy to use, an on-line help system is provided explaining data entry and terminology used in the program.

RXStats is accurate. It has been thoroughly tested by benchmarking against a well-known system simulator and used in actual commercial system design prior to being offered for sale.

RXStats is affordable. Compare the price of **RXStats** to other commercially available packages or to writing your own software - you will agree **RXStats** is an excellent value.

System Requirements:

- Windows 95/98
- 800 x 600 or better screen resolution

Ordering Information:

Price: \$29.95
Shipping/Handling: \$4.00

To order, send check, money order, or company purchase order to:

TSV Engineering
PO Box 99428
Raleigh, NC 27624-9428

RXStats Version 3.01 © 1999 TSV Engineering

Title: 800 MHz AMPS Demo System Date: 9/2/99

NF Parameters: ☒ Sensitivity ☐ Noise Figure IM Parameters: ☒ Intermodulation Ratio ☐ Input Intercept Point

Block Diagram: [Filter] -> [Amplifier] -> [Mixer] -> [Attenuator] -> [Filter]

Pass Criteria: C/N Required (dB): 15, C/I Required (dB): 8.0, System BW (kHz): 30

Statistical Results:

Sensitivity		IM	
Mean Value	-119.67 dBm	Mean Value	67.401 dB
Minimum	-120.66 dBm	Minimum	64.049 dB
Maximum	-118.76 dBm	Maximum	70.314 dB
Std. Dev.	23895 dB	Std. Dev.	68951 dB
Failures	0	Failures	107
Yield	100 %	Yield	99.572 %

Buttons: Add Stage, Amplifier, Attenuator, Filter, Mix, Delete, Calculate, Print

For further information e-mail us at tsv@engineer.com or visit our web site at www.tsvengeering.cjb.net