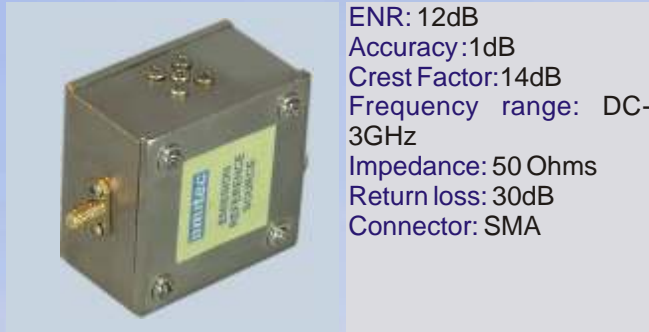


Amitec NFA10 Noise figure analyser helps in understanding of noise figure measurement of amplifiers and other devices. It first-hand experience with real-world compliance problems and tools. It contains everything a student needs to start learning Noise figure measurement. The system gives insight into basics of noise figure measurement for students.

Features:

- * 5 MHz-2 GHz Noise Figure Analyzer with 0.1 dB resolution.
- * Additional 500 MHz Bandwidth Noise Figure analyzer.
- * 12dB ENR Excess Noise generator.
- * 0.5dB resolution Variable Noise Figure device Under Test.
- * 3dB Noise Figure Low Noise Preamplifier.
- * 3 GHz range Noise injector.
- * 3 GHz range Power Combiner.
- * 20dB and 40dB Attenuators.
- * Broadband Antennas- Log Periodic, Biconical.

1. Excess Noise Generator



ENR: 12dB
Accuracy: 1dB
Crest Factor: 14dB
Frequency range: DC-3GHz
Impedance: 50 Ohms
Return loss: 30dB
Connector: SMA

5. Low Noise Preamplifier



Frequency Range: 9KHz-3GHz
Noise figure: 3dB
Gain: 40dB
Compression 1dB: 10dBm

2. Variable Noise Figure Device under Test



Range: 0.5-15 dB
Resolution: 0.5dB

6. 2 GHz Noise Figure analyser



3. Power Combiner



Frequency range: 3 GHz
Connector: SMA

Technical specifications

Frequency range : 5-2000 MHz PLL synth. in 3 ranges
Step size : 0.05, 0.1, 0.25, 0.5, 1, 10, 100MHz
Accuracy : 0.01%
Display : 16X2 Backlit LCD
Memory : 1000 frequencies & levels be stored
Measure : RF power in dBuV, dBm, pW, nW, dBr- dB relative
Sensitivity : -100dBm
Dynamic range : 110 dB (70dB log. + 40dB attenuator)
RS232 interface : To PC for plotting software
Auto mode : Interfacing with source
Input Z : 50 ohm Gold plated SMA connector

4. Noise Injector



Frequency range: 3 GHz
Coupling: 18dB

8. Noise figure Analyser



Frequency: 1-500MHz
Resolution: 100KHz 4 digit LED display
Range: -90dBm - +10dBm
Noise Figure: 4dB
Bandwidth: 250kHz
Integration: 100 samples
Input Impedance: 50 Ohms (SMA)
CRO Output: Linear X, Log Y out (BNC)

Mfd by: Amitec Electronics Ltd.

Regd. Off: 504, Nilgiri, Barakhamba Road, New Delhi-110001, India
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ISO 9001:2000
Quality Management System
Cert. No. 2919

9. Termination - 2 Nos.



Connector: SMA

10. High Pass Filter



Filter: Low pass chebyshev
Connector: SMA
Order: 7th
Cut Off frequency: 350 MHz

11. Low Pass Filter



Filter: High pass
Chebyshev
Connector: SMA
Order: 7th
Cut Off frequency: 350 MHz

12. Microstrip Log Periodic Antenna



S11: >10dB
Bandwidth: 1500 ± 500 MHz
Gain: 6dBi
Beamwidth : E plane 60°
Beamwidth : H Plane 80°
Polarisation : Linear
Front to Back Ratio: 6dB
Connector : SMA

13. Biconical Antenna



S11: >10dB
Bandwidth: 600 ± 300 MHz
Gain: 2dBi
Beamwidth : E plane 60°
Beamwidth : H Plane 180°
Polarisation : Linear
Front to Back Ratio: 0dB
Connector : SMA

14. Tripod



Non- conducting, Non-
radiating copolymer
Low RCS

15. Log Periodic Antenna



S11: >10dB
Bandwidth: 600 ± 300 MHz
Gain: 4dBi
Beamwidth : E plane 60°
Beamwidth : H Plane 80°
Polarisation : Linear
Front to Back Ratio: >6dB
Connector : SMA

16. 20dB Attenuator



Attenuation: 20dB
Connector : SMA
Impedance:50 Ohms

17. 40dB Attenuator



Attenuation: 40dB
Connector : SMA
Impedance:50 Ohms

18. Accessories



SMA-SMA RG316 cables,
SMA- SMA Adapters

E Manual- Installation Video
ease of learning

Dimensions: 55 X 45 x 36
cms;
Weight :20Kg.

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