



Amitec Microwave Circuit Test Bench MIC 02

Amitec MIC02 has been developed keeping in mind the requirements of new syllabus for most universities. It uses a broadband PLL microwave source working over a decade of bandwidth from 0.2-2 GHz and a matched PLL receiver scanning the bandwidth. Several modules using low loss substrate are provided with etched surface mounted circuits. Gold plated SMA connectors are provided on each module for repeatable connections. Teflon cables are provided for low loss interconnects.

Amitec MIC02 Features:

- * PLL Synthesized source and receiver
- * S - parameter test set provided
- * Design & Simulation software provided
- * Over 30 different MIC modules provided
- * RS232 interface
- * Windows software for graphical analysis
- * 50 Ohms matched impedance system
- * Gold plated connectors
- * Low loss substrate

Amitec MIC02 Technical Specifications:

| | | |
|------------------|---|--|
| Microwave Source | : | 0.2 GHz to 2GHz PLL synthesized |
| Display | : | 16X2 Backlit LCD |
| Accuracy | : | 0.01% for frequency |
| Microwave output | : | 100dBuV typical |
| Output Impedance | : | 50 Ohms |
| Receiver Range | : | 0.2 GHz to 2GHz PLL |
| Power measure | : | dBuV |
| Display | : | 16X2 Backlit LCD |
| Resolution | : | 0.1dB |
| Dynamic Range | : | 70dB |
| Input Impedance | : | 50 Ohms |
| Autoscan | : | frequency tracking |
| Data Storage | : | 1000 memories |
| S Parameter Test | : | S11, S12, S21, S22 measurement |
| RS232 interface | : | plotting on PC via RS 232 using windows software |

Software Specifications

SWR, Forward/ reverse Power plots for S11, S12, S21, S22 measurement, data logging with file editor, RS232 interface for accurate data transfer, Linear/Log Representation of plot, Printing and file saving facility, relative & absolute plots.

Microwave Simulation Software for computer aided design and analysis of microwave circuits.

E-Manual: Installation DVD for ease of Learning

Specifications are subject to change due to constant innovation in technology. Accessories shown are not part of standard equipment.

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Amitec MIC02 Technical specifications:**Active Circuits:****Microwave Amplifiers**

1. MMIC amplifier
2. Microwave BJT amplifier (Optional)
3. Microwave GASFET amplifier (Optional)

Microwave Switches

4. SPST PIN diode switch
5. DPDT PIN diode switch

Microwave Modulators

6. Amplitude Modulator (Optional)

Microwave Circulators

7. Circulator (Optional)

Microwave Isolators

8. Isolator (Optional)

Microwave Phase Shifters

9. Phase Shifter

Microwave Mixers

10. Single Ended Mixer (Optional)
11. Double Ended Mixer (Optional)
12. Double Balanced Mixer (Optional)

Microwave Oscillator

13. Microwave Oscillator (Optional)

Passive circuits:**Microwave Antennas**

15. Patch Antenna inset fed
16. Patch Antenna transformer fed
17. Log Spiral antenna
18. Log Periodic Dipole array

Microwave Attenuators

19. Fixed attenuator
20. Variable attenuator

Microwave Baluns

21. Balun

Microwave Bias Network

22. Radial Stub Butterfly
23. Radial Series Stub
24. Radial Short Stub

Microwave Impedance Matching & Tuning

25. Matched Load
26. Open stub
27. Short stub
28. Mismatch
29. Transformer Single-section
30. Transformer Double-section
31. Tapered Line

Power Dividers

32. Wilkinson chip resistor type
33. Wilkinson w/o resistor
34. Wilkinson unequal division

Microwave Couplers

35. Coupled line directional coupler
36. Hybrid Ring Rat race coupler
37. Branch Line Coupler
38. Tapered Line coupler

Microwave Resonators

39. Ring Resonator
40. Half wave resonator

Microwave Filters

41. Low Pass Filter stub type
42. Low Pass Filter step impedance
43. Band Stop Filter coupled line (Optional)
44. Band Stop Filter stub type (Optional)
45. Band Pass Filter edge coupled
46. Band Pass Filter resonator
47. Band pass Filter interdigital(Optional)
48. Band Pass Filter Hair pin
49. High Pass Filter

Microwave Components

50. Inter Digital capacitor
51. Spiral Inductor

Microwave Discontinuities

52. Radius Bend
53. Miter Bend

Microwave Detector

54. Detector (Optional)

Grounded Coplanar Waveguide

55. Grounded Coplanar Waveguide

Microwave Strip Line

56. Strip line (Optional)