

## 6.002 Demo# 22 ( This demo is done on Dynamic Signal Analyzer )

### Displays the Transfer Function of an RLC Bandpass

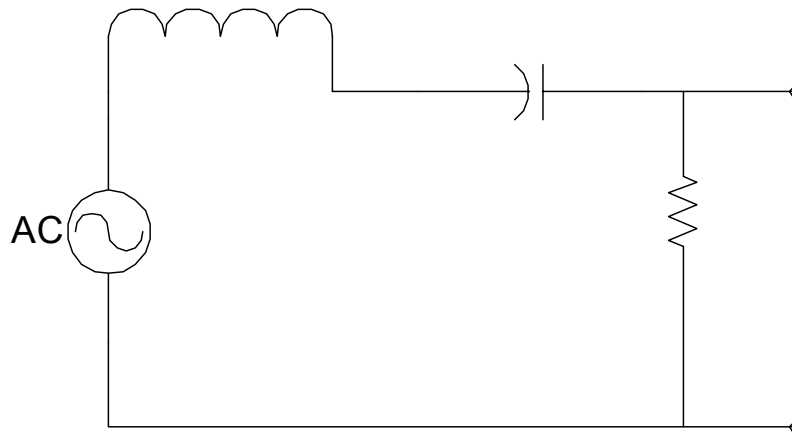
Agarwal Fall 00

#### Lectures 17 and 18

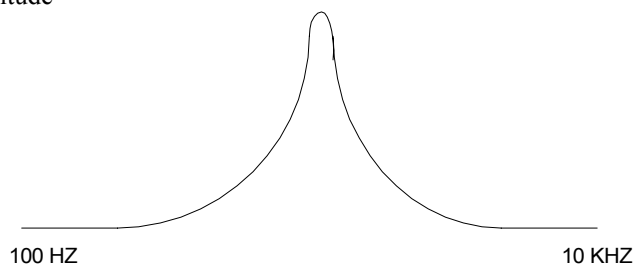
Purpose:

This demonstration shows the magnitude and phase plots for an RLC bandpass filter on the Dynamic Signal Analyzer.

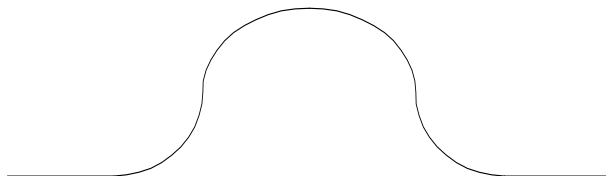
Steps:



Small R:  
magnitude



Big R:  
Magnitude



**Description: Low Pass / HighPass RC**

- 1. Press Power On (Wait)**
- 2. Press Preset**
- 3. Press Pause/Cont.**
- 4. Press Select Meas.**
- 5. Press Freq Resp.**
- 6. Press Meas. Mode**
- 7. Press Log. Res.**
- 8. Press Swept Sine**
- 9. Press Source**
- 10. Press Source Level**
- 11. Press 1**
- 12. Press V**
- 13. Press Range**
- 14. Press Auto 1 Up + Down**
- 15. Press Auto 2 Up + Down**
- 16. Press Coord.**
- 17. Press Mag (dB) [LIN] ENTER**
- 18. Press Scale**
- 19. Press X FIXD Scale**
- 20. Press .1,10**
- 21. Press kHz**
- 22. Press Y FIXD Scale**
- 23. Press 32, -48**
- 24. Press dB**
- 25. Press Freq**
- 26. Press Start Freq.**
- 27. Press 100**
- 28. Press Hz**
- 29. Press Stop Freq.**
- 30. Press 10**
- 31. Press kHz**
- 32. Press B**
- 33. Press Coord**
- 34. Press Phase**
- 35. Press Scale**
- 36. Press X FIXD Scale**
- 37. Press .1, 10**
- 38. Press KHZ**
- 39. Press 90, -90**
- 40. Press Degree**
- 41. Press Freq.**
- 42. Press Sweep Rate**
- 43. Press 5**
- 44. Press Sec/Dec**
- 45. Resltn 5**
- 46. Press Resltn AU**
- 47. Press A+B**
- 48. Press Start**

**Always use Linear it looks better!!!**

