

Q.1

- a-) Match  $8\ \Omega$  into  $75\ \Omega$  using high-pass L-match. Only show impedances
- b-) If the matching circuit is to operate at  $100\text{ MHz}$ , find suitable components
- c-) Match  $75\ \Omega$  into  $8\ \Omega$  using high-pass L-match. Only show impedances
- d-) Repeat (b)

Q.2

- a-) A load of  $10 + 25j$  is given. Find a circuit to match this impedance into  $100\ \Omega$  using L-match. Only use impedances.
- b-) Can you match this impedance into  $50\ \Omega$  using L-match. Explain your answer.
- c-) Match the same load into  $100\ \Omega + 100j$  by using L-match