

```
Vs = 110;
                 %rms
      f = 60:
     w = f*2*pi;
     Rs = 1.25;
     N = 20;
     RL = 82;
     LL = 65e-3;
      Z_0 = 75;
      1 = 380e3;
      vp = 0.3e9;
      B = w/vp;
      ZL = RL + li*w*LL;
      ABCD1 = [1, Rs; 0, 1];
      ABCD2 = [-1/N, 0; 0, -N];
      ABCD3 = [cos(B*1), li*Zo*sin(B*1); li*(1/Zo)*sin(B*1), cos(B*1)];
      ABCD4 = [1, 0; 1/2L, 1];
      ABCDT = ABCD1*ABCD2*ABCD3*ABCD4
      VL = (Vs)/ABCDT(1,1)
1 -
       abs (VL)
       angle (VL) *180/pi
22 -
23
       Is = (VL) *ABCDT(2,1)
24 -
       abs(Is)
25 -
       angle(Is) *180/pi
26 -
```