Mow, 
$$S = \frac{d}{w_0} = \frac{1}{280}$$

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$$S_0 = 10^3 \times \sqrt{\frac{10 \times 10^3}{10 \times 10^3}}$$

$$= 100 \text{ A}$$

$$Z = \frac{1}{2 \times 100} = 0.005 \text{ A}$$

$$Q_0 = 1 \times \sqrt{\frac{10 \times 163}{1}}$$
  
=  $0.1 \text{ A}$   
 $J = \frac{1}{2 \times 0.1} = 5 \text{ A}$ 

$$90 = 10^{3} \sqrt{1/1}$$

$$= 1000 A$$

$$= 1 \sqrt{1/1}$$

$$Q_0 = 1.\sqrt{1}$$

$$= 1 \text{ As}$$

$$Z = \frac{1}{2} = 0.5 \text{ As}$$

$$Zin(s) = ?$$

$$\begin{array}{lll}
\Delta_{om} & L = 1 \text{mh} = 10^{-3} \text{ H} \\
X_{L} = j \omega L \\
&= j \times 10^{-3} \omega \quad \Lambda
\end{array}$$

$$X_{c} = \frac{1}{j 50 \times 10^{5} \text{W}} = \frac{-j 20 \times 10^{6} \text{M}}{\text{W}}$$

benform Kel at made vottige or

$$= 0.5 V_{R} + \frac{1-V}{10+j10^{3}\omega} = \frac{V}{-j20\times10^{6}} \dots 0$$

ad;

and ,

$$V = (0.5 \text{ Vp} + \text{ T}_{test}) \times -\frac{j_{20} \times j_{0}^{\epsilon}}{\omega}$$

$$= (0.5 \times l_{0} \text{ T}_{test} + \text{ T}_{test}) \times -\frac{j_{20} \times l_{0}^{\epsilon}}{\omega}$$

Substitue the 1150H of 3 and 2 in 1

$$= 0.5 \times 10 \text{ T}_{10} + \frac{1}{10^{-3} \omega} = \frac{1}{10 + j \cdot 10^{-3} \omega} = \frac{1}$$

$$T_{lot}\left(S - (+ j D_0 \times 1_0 6) - \frac{1}{10 + j 1 e^3 w}\right) = \frac{1}{10 + j 1 e^3 w}$$

$$T_{lot}\left(-1 + \frac{j D_0 \times 1_0 6}{10w + j 1 e^3 w^2}\right) = \frac{1}{10 + j 1 e^3 w}$$

$$T_{lot}\left(\frac{-10w - j 1 e^3 w^3 + j D_0 \times 1_0 6}{w (10 + j 1 e^3 w)}\right) = \frac{1}{10 + j 1 e^3 w}$$

$$= \frac{-10w - j 1 e^3 w^2 + j 1 e^2 \times 1_0 6}{w (10 + j 1 e^3 w)} \times \left(-10 + j (10^3) w\right) = \frac{1}{1 + e^4}$$

$$= \frac{-10w - j 1 e^3 w^2 + j 1 e^2 \times 1_0 6}{-w} = \frac{1}{1 + e^4}$$

$$= \frac{1}{1 + e^4} \times \frac{1}{1 + e^4}$$

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$$= \frac{1}{1 + e^4} \times \frac{1}{1 + e^4} \times \frac{1}{1 + e^4} \times \frac{1}{1 + e^4} \times \frac{1}{1 + e^4}$$

$$= \frac{1}{1 + e^4} \times \frac{1}{1 + e^4} \times \frac{1}{1 + e^4} \times \frac{1}{1 + e^4} \times \frac{1}{1 + e^4}$$

$$= \frac{1}{1 + e^4} \times \frac{1}{1 + e^4} \times \frac{1}{1 + e^4} \times \frac{1}{1 + e^4} \times \frac{1}{1 + e^4}$$

$$= \frac{1}{1 + e^4} \times \frac{1}{1 + e^4}$$

$$= \frac{1}{1 + e^4} \times \frac{1}{1 +$$

The abolity foton as for a senis RLC cincuit is:  $0_0 = \frac{w_0 L}{R}$   $= \frac{346.41 \times 10^3 \times 1 \times 10^3}{10}$   $= \frac{34.64 L}{R}$