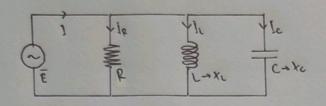
Hama: LUBIT AULIYAC

telas: 103 78

1129: 1203191052

TUGAS PENGGANTI WORDHOP PEP RANGEAIAM DESOMANSI PARALEL

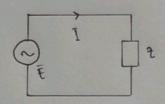


Ditet: R=1K2

L=40MH = 40.10-3 H

C = 0,633 MF = 633.10-9 F

E = 2 volt



tio	f(H2)	XL(Q)	xc(a)	(0)5	((())
,	500	j125,6	-3503.11	166,67	12
2	600	j150,12	- 1419,26	232,56	8.6
3	700	1175,84	7359,07	333,33	6
4	800	j200,96	-1314,45	476.2	4.2
5	900	j226.08	- 1279,5	769,23	2,6
6	1000	7521.5	-1251,56	1000	2
7	1100	j 216,32	-3227.7	769.23	2,6
8	1200	1301,4	-j209,63	21555	3,6
9	1300	1326,56	-j193.5	434,78	4,6
10	1400	j351,7	-3179.7	333,3	6
11	1500	1376,8	F. P316-	285,71	7

- Mind frequency resonance bordaratan Mind arus terredy

• fr (H2) = 1000 H2 ... (1)
• fr_T = 1

2
$$\overline{t}$$
 . \overline{t} ... \overline

= 0,071 %

$$\frac{1}{\sqrt{G^2 + (B_L - B_L)^2}}$$

$$G = \frac{1}{R} \quad B_{C} = \frac{1}{X_{C}} \quad B_{C} = \frac{1}{X_{C}}$$

$$= \frac{1}{10^{3} \Omega} \quad \frac{1}{125,16 \Omega} \quad \frac{503,11.2}{503,11.2}$$

$$= 10^{-3} T \quad = 0.008 T \quad = 0.002 T$$

$$\frac{2}{\sqrt{(10^{-3})^2 + (0.0066 - 0.0024)^2}}$$

$$= \frac{1}{0.00430} = 232.560$$

$$\frac{1}{\sqrt{(10^{-3})^2 + (0.0073 - 0.0028)^2}}$$

$$= \frac{1}{0.003} = 333.33 = 0$$

$$\frac{2}{\sqrt{(10^{-3})^2 + (0.0049 - 0.0036)^2}}$$

$$= \frac{1}{0.00130} = 769,231$$

$$\frac{2}{\sqrt{(10^{-3})^2 + (0.004 - 0.004)^2}}$$

$$= \frac{1}{10^{-3}77} = 1000.2$$

$$\frac{2}{\sqrt{(10^{-3})^2 + (0.0036 - 0.0044)^2}}$$

$$= \frac{1}{0.0013 \text{ T}} = 769.23 \text{ A}$$

•
$$X_c = -j$$
 1
2.3,14.1200.633.10-9
= -j 209,63.2

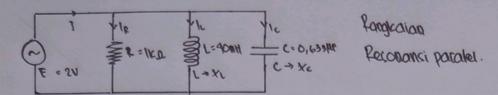
$$\frac{2}{\sqrt{(10^{-3})^2 + (0.0033 \cdot 0.0048)^2}}$$

$$\frac{1}{\sqrt{(10^{-3})^2 + (0.0031 - 0.0051)^2}}$$
= $\frac{1}{0.0023}$ = $\frac{434.78}{0.0023}$ =

$$\frac{2}{\sqrt{(10^{-3})^2 + (0.0028 - 0.0056)^2}}$$

$$= \frac{1}{0.00375} = 333.3 - 2$$

2. Menghitung L. c untur menghitung Factor kualitar



No	f (kH5)	(MH)	C(he)	Q
1	1 kH2	40	0,63	3.975
2	2 KHS	20	0,316	3,968
3	3 kH2	13	0,21	3,956
4	1 KH2	10	0,157	3,943
2	2 kH5	8	01126	3,956

* Portifungan: (Pada soot kondisi rosonamsi).

*
$$Q = \frac{R}{\omega \cdot L} = \omega \cdot C \cdot R = \frac{L}{1} = \frac{Lc}{1}$$

$$Q = \omega \cdot C \cdot R$$

$$= 2\pi \cdot f \cdot C$$

$$= 2 \cdot 3 \cdot 14 \cdot 1000 \cdot 0 \cdot 633 \cdot 10^{-6} \cdot 1000$$

$$= 3 \cdot 935$$

= 0, 21 ME