Expirement 10 UPLOADED BY AHMAD JUNDI Filters JB R-C filters in both Cases should Be the same necrifically low pass filters -filter R Channel I Dso Vin Vin = Vosinut -AM Vin = IZ Your Vout = TR channel 2 from the previous Exp Z= VR2+X22 $A = \frac{R}{\sqrt{R^2 + \chi^2}}$ c_{∞} Vin = $I \sqrt{R^2 + \chi^2}$ $\sqrt{1+\frac{1}{\omega^2 R^2 C^2}}$ Remember that $X_c = \frac{1}{62c}$ Vow = IXC Attenuation factor :-A - Vout R2+X2 ۶f J-3dB $\sqrt{R^2 \omega^2 C^2 + 1}$ WadB - RC 平 E3JB = 2TC BC f-2 IB

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• Theoritical explanation :-UPLOADED BY AHMAD JUNDI · low pass fuller only allows low frequency sugrials to perso · When the frequency is low the signal bravels through the output and when it is high it travels through the Capaciton what we use :-· R.C. . signal Generator & DSO · فم وحل هذه المارَه • خرم الترد في المن (20- 20) وقس وزور لار 1) To Ceclure · 101 de Vait rémès A up · low pass filter :-F-30B JEAN , Avsf. (-). ->. Connect the CirCuit ->. Change the frequery Dro ? __11^{_C}____ in the Range (0.2-- 20/ KHZ and measure V.

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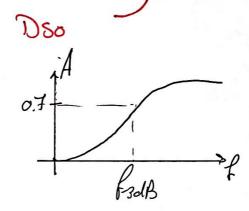
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->. Connect this CirCuit

. Migh pass filler

Dame as Previouse the

. Obtain frada



С

R

Dso O

- · قم رجل الدانة (القادمة دبل الواضح)
 - · تغن حطواب التركيب السابعه

fisdB dever