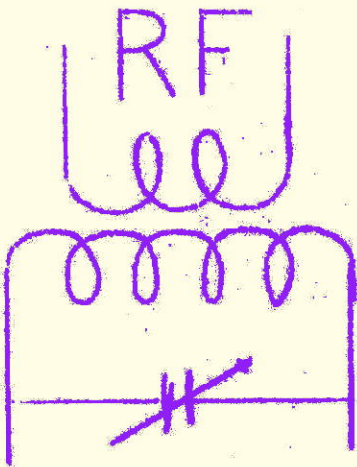


Radio Frequency (RF) Relaying Facts (RF)
and Redeeming Features (RF) to Real Friends (RF)
for a Rosy Future (RF).

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Editorial Staff

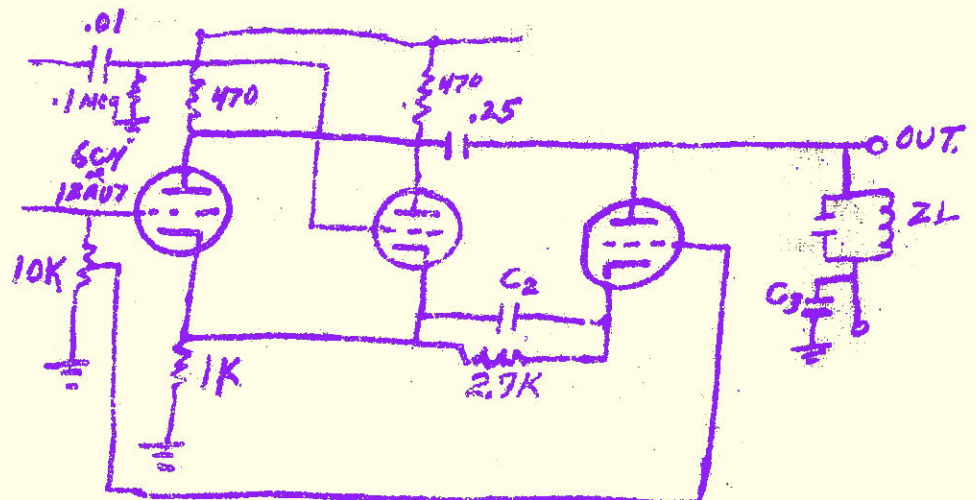
W6OZO, K6BIG, KN6YVD, K6KJV, K6COE et al.



The circuit and description printed below are reprinted from QST as the information is timely and could possibly have escaped some of us.

Transformerless Single Side Band Balanced Modulator

The circuit included will be recognized as quite similar to the product detector described recently. Triodes V1 and V2 serve as cathode followers to drive the cathode circuit of V3, by virtue of the common cathode resistor R1. By the proper choice of bias and signal-level limits, triodes V1 and V2 are adjusted for linear operation. Mixer operation takes place in V3 through the switching action exerted by V1. With the grid of V3 at ground potential, side bands and carrier will appear in the output if ZL is tuned on or near the carrier frequency. A positive-going signal at the grid of V1 results in a positive-going signal at the cathode of V3 which has the same effect on V3 plate current as a negative signal on the V3 grid. Consequently, if the proper amplitude of voltage from the V1 grid is applied to the V3 grid, the net effect on the voltage across ZL is zero. This can be done conveniently by the proper setting of the arm of R3. For complete carrier elimination, the carrier is cancelled in the output by the proper setting of R3, together with the correct setting of C1, a neutralizing capacitor that compensates for capacitive feedthrough between V1 and V3. A carrier reduction of approximately 50db may be maintained with stability. It is reported that this modulator will produce an over-all distortion less than 0.5%. In amateur work, it may find its primary application in filter type ssb generators. K6BIG



QRS
by
MAE DAE

Was going to take a vacation this time but seems as how the paper was a little short....Think I must be in the let down that usually comes after you finally get something you want real bad... anyways....haven't even heard any gossip except maybe no picnic this year. Sure had fun at the ones have gone to....sure too bad no one wants to be the big wheel and appoint committees to do the work. Actually the big wheel should be one who has done a picnic before but the little workers can be anyone...one last parting quip! Seems the YL's and XYL's should borrow and SWR Bridge and get rid of the Satnding Around Waves that surround the OM's. Bye...

SUPER SIX
by
K6COE

As you all noticed-no column last month. Just got my General ticket and in all the excitement forgot about it. Try to do better next time. Been some real good openings on Six the past month, but as usual we have missed most of them. Last week one day was open to W7's about all day. Thanks to the new faces on six at the CD drill We need a lot more if it is going to be done right, so how about it gang? Let's all but another round of raffle tickets on the generator to help out the club. (P.S. we are going to win it) Hope all the gang get on VHF contest day so we can work all of you. This year hope to be on two also. Let's see a little more contest Activity in the San Diego Section than there has been. That's about all from here got to get back to 20CW. 73 Bob

LOCAL NEWS
by
K6KJV

All the news, well part of it anyway, that's fit to print and some that isn't...Question of the month. Who dropped the ball at Herk's domicile Saturday? It seems that HerkK6BIG, Rehse W6OZO, Harry K6UBJ Bob W5YHY John K6HWO and Al K6KJV (not 4) were attempting to lower Herk's tower for a small repair job and the addition of a two meter ground plane for the top of the mast. Your author was clever enough to arrive late just as the tower sank slowly into the west. After a little work, a lot of gossiping and about two hours later the beast was ready for the resurrection. All hands turned to and up it went. Unfortunately, it only went up about 45 degrees due to the poor choice of the telephone co. as to here they string their cable. The top of the mast got bent about 20 degrees or so and needless to say nobody wants to accept the responsibility for the goof. Obviously, there was a slip in the engineering dept. but the question is how come the inspectors and critics in final assembly (and there were a bunch of them) didn't catch it? Everybody claims they were sober too.....Ted Henry of Henry Radio made the better part of his second or third million Saturday afternoon from Orange county and if everybody pays what he owes he should be able to sit back work 14.3I7 mc with a smile on his face(Frank Charlie Charlie permitting). OZO brought back a new 75A4, HWO and P&H Linear 5YHY a couple of junction boxes (one of which should belong to me) and your reporter istrading for a 20A and a 600L for a half gallon of SSB. Goodby first class mobile. 73 Al

The next meeting of the Orange County Amateur Radio Club will be held May 15 and will be held at 1930 and 12502 Placentia Orange. K6KLB will be presiding over the meeting and generator drawing. Refreshments Etc as usual.



Dr. M. W. Conway
1109 West 17th
Santa Ana

