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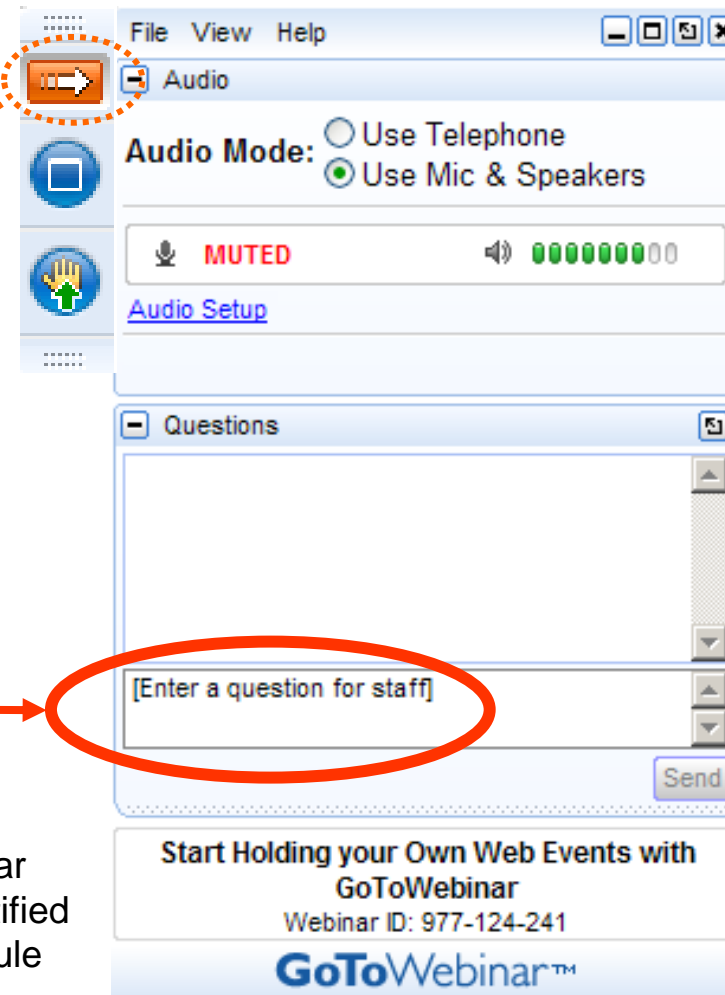
DIPLEXING AM TRANSMITTERS WITH BUT 3 PERCENT FREQUENCY SEPARATION

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DIPLEXING AM TRANSMITTERS WITH BUT 3 PERCENT FREQUENCY SEPARATION

SUMMARY: A diplexing network to combine the output of two transmitters operating on 2522 and 2598 kilocycles is described. Many of the practical limits and considerations pertinent to all diplexing systems are discussed in connection with the description. A slightly different approach to the design of critical systems is taken pointing out the practical limitations of prior designs. Conclusions drawn show the definite need for regular attention to the operation of diplexing systems in general. More specifically, the combination of the outputs of transmitters operating simultaneously on the above two frequencies is shown to be both practical and possible, provided the system receives regular attention.

https://worldradiohistory.com/Archive-Catalogs/Gates-Harris/Gates%20Engineering%20Report%20Diplexing%20AM%20Transmitters.pdf

Throughout the years that radio broadcasting has existed there has not been a strong need to operate more than one AM transmitter into a single antenna. However, during the past several years vertical real estate has become increasingly valuable due to economic factors affecting large tracts of open land. The frantic efforts of the anti-tower consortium to stop the erection of as many towers as possible, together with FAA restrictions, have also added to the value of existing transmitting antennas and their sites. Consequently, the idea of feeding two or more transmitters into a single tower is becoming increasingly attractive and more stations are finding it necessary to diplex to stay viable, or even find a suitable site.
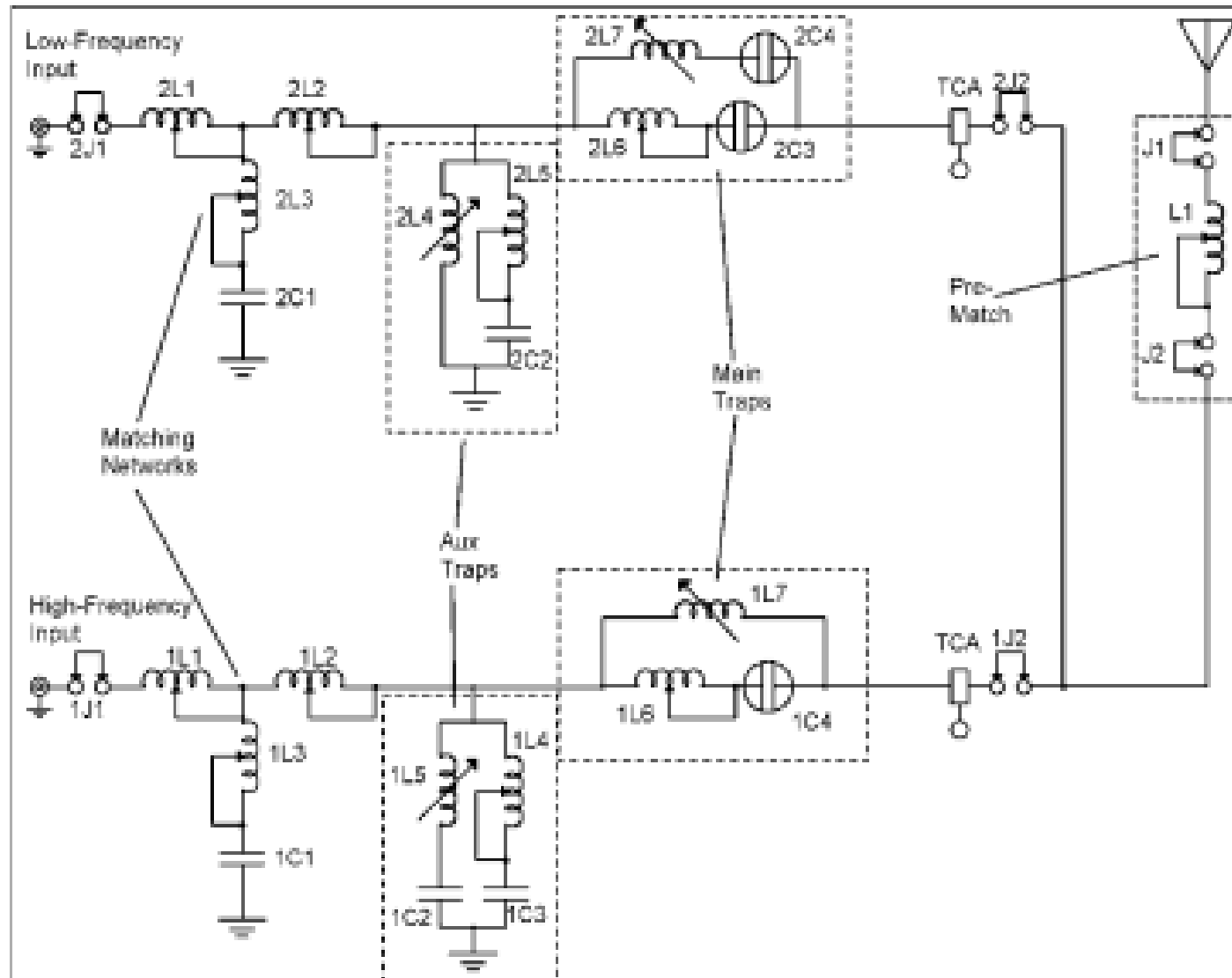
PHASETEK INC.
550 CALIFORNIA ROAD - UNIT 11
QUAKERTOWN, PA 18951
PHONE: (215) 536-6648
FAX: (215) 536-7180

DIPLEXER QUESTIONNAIRE

GENERAL:

A. Frequency 1:_____kHz   Frequency 2:_____kHz

B. Operating Power(Watts)   Frequency 1   Frequency 2
   1. Daytime_____   _____   _____
   2. Nighttime_____   _____   _____
   3. Pre-Sunrise_____   _____   _____
   4. Other_____   _____   _____

C. Tower Type_____   D. Tower Feed
   Guyed_____   Series _____
   Self Supp _____   Shunt _____
   Other _____   Unipole _____

E. Tower Height: Meter_____ Ft _____Degrees_____

F. Transmission Line Type (or should Phasetek select) Frequency 1:_____ Frequency 2: _____

G. Input terminal: Frequency 1: Type: EIA _____Clamp_____

                 Frequency 2: Type: EIA _____Clamp_____

H. Tower Impedance (If Known) Frequency 1: _____ Frequency 2: _____

I. A.T.U.: Weatherproof cabinet _____Open Panel_____

   1. Lighting chokes: 2 wire _____ 3 wire _____ No _____ S.D. chokes: Yes _____ No _____

   2. Meters: Thermocouple _____ Delta _____ None _____ Plug-in _____ Switched _____

   3. Jacks: Input _____ Type _____ Output _____ Type _____ R.P.U. Yes _____ No _____

DA Q&A: Using A Pi Filter For Better Diplexing

Written By **Kurt Gorman** Posted In **Antennas**.

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[June 2013] There are a number of reasons for diplexing AM stations. Sometimes it can save a station which lost its site to developers when a lease ran out. Other times, companies just seek to unlock land asset value by combining sites and selling one site off.

Either way, as Kurt Gorman explains, how the diplexer is designed is important.

Scott Fybush/fybush.com 2013

http://www.mwpersons.com/articles/2013/four-am-stations/four-stations.html

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