No. 75012 PHASING UNIT

The 75012 is a precision 90 degree differential phase shift unit. The phase shift between the two sets of output terminals is 90 degrees plus or minus 1.3 degrees over a frequency range of 225 cycles to 2750 cycles.

A single-sideband transmitter using the 75012 phase shift unit will have 40 db. suppression of the unwanted sideband.

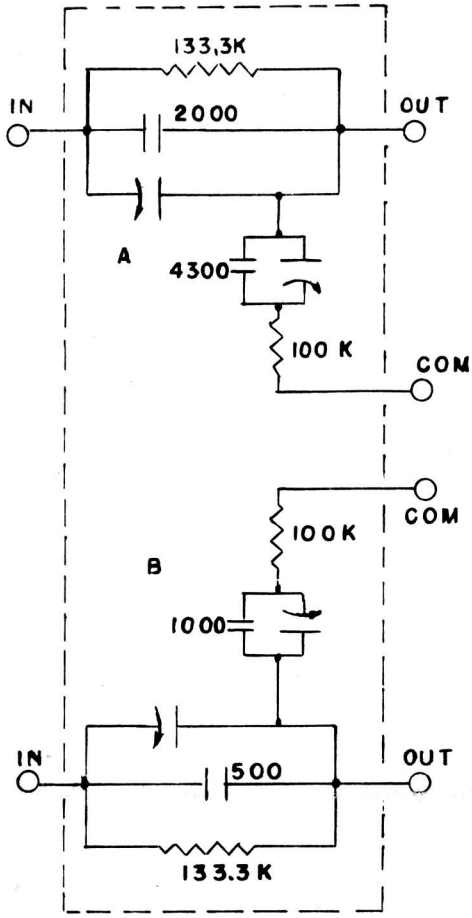
The 75012 is characterized by mechanical and electrical ruggedness, is built from precision parts, and is precisely adjusted and sealed in the laboratory.

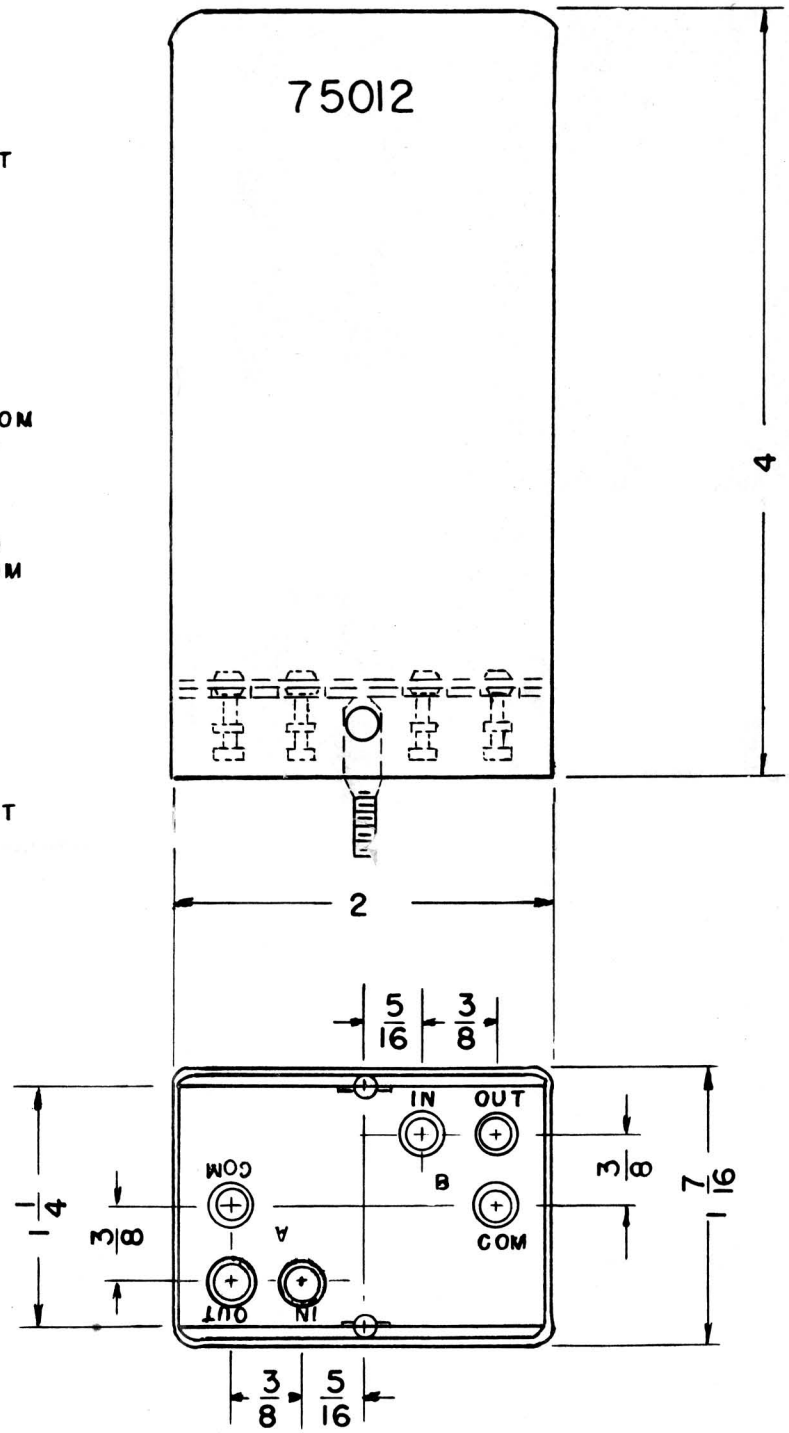
The 75012 is $\frac{7}{16}$" x 2" x 4" and mounts like an IF transformer.

This precision-adjusted audio phase shift unit can be used either in receiving or transmitting service. A single-sideband transmitter utilizing the 75012 is no more difficult to construct and get operating than any simple conventional transmitter. For an example of a 3-tube 5-watt single-sideband transmitter using this phase shift unit, see the November-December 1950 issue of "G.E. Ham News." The July-August 1951 issue of "G.E. Ham News" describes a simple receiver adapter using the 75012 for single-sideband reception.

The 75012 contains two independent networks. The differential phase shift is 90 degrees. In transmitter applications the two terminals marked COM. are jumped together. In receiver applications the networks remain

THIRD ANGLE PROJECTION





CAPACITY IN MMF

K MEANS MULTIPLY BY 1000 OHMS

ALL DIMENSIONS UNLESS OTHERWISE NOTED MUST BE HELD TO A TOLERANCE OF

PHASE SHIFT NETWORK

FIRST MADE FOR

DESIGNED BY

DRAWN BY R. CHICOLER

CHECKED BY R.W.C.

APPROVED

10-25-51	REVISED AND RE-DRAWN	JAMES MILLEN MFG. CO., INC. MALDEN, MASS., U.S.A.	K 75012	DATE 10/25/51

SPAULDING-MOSS CO., BOSTON, MASS. REORDER NO. B168