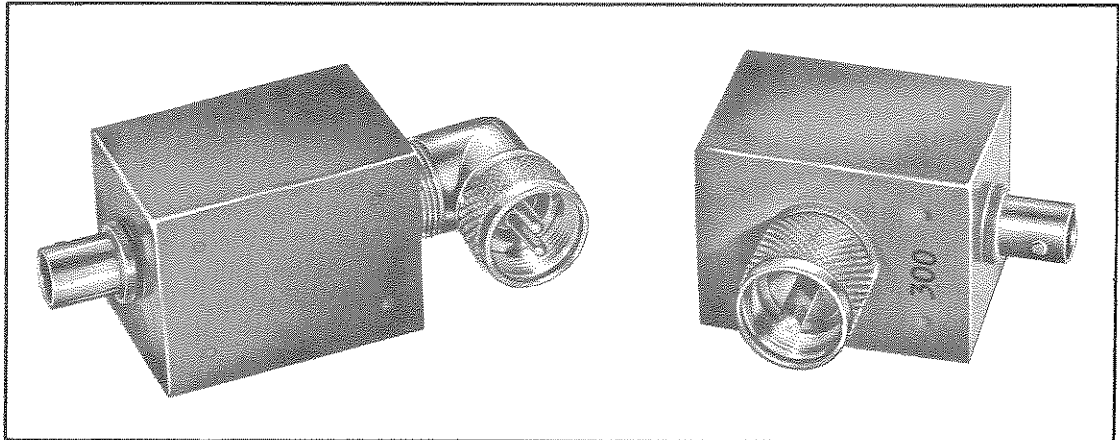


SALES SERVICE BULLETIN NUMBER 149

Receiver Broadband Input Transformer, Models RBT



The TMC Receiver Broadband Input Transformer, Model RBT, is an impedance matching device providing matching facilities from a 72 ohm coaxial antenna to the nominal 200 or 300 ohm antenna coil primary of the receiver.

The Model RBT was designed to provide an unbalanced to a balanced receiver input. Use of the Model RBT results in a higher overall performance of the average communications receiver by providing a better average impedance match to the antenna input coil. (The impedance of the average antenna input coil varies from 100 to 2000 ohms throughout the frequency range of 2 to 30 mc.) The insertion of this device will also result, in most cases, in a better signal to noise ratio. Moreover, certain types of man-made interference will be attenuated. Similar devices using variable condensers and coils have been used in the past to perform these functions. Now, for the first time, the Model RBT accomplishes the same and in fact improved results with a completely untuned device. The unit is small and compact and has been provided with coaxial fittings for simple attachment to a receiver.

Illustrated above are two typical units of this series. The Model RBT-1 on the right was designed for use with receivers having unbalanced input, and uses the UHF series male connector, matching SO-239 (Amphenol 83-1R). The Collins 51J3 and Hallicrafters R-274 equipments require these fittings.

The Model RBT-2 shown on the left provides balanced input, using the UHF series male connector, and fits the input receptacle of the Hammarlund SP-600.

It should be noted that all of these applications require no modifications to the receiver, the fittings so placed as to allow immediate installation within a cabinet, if necessary.

Other transformations to suit particular requirements are being designed, as well as use of various coaxial fittings, and we invite your specific inquiries.

TECHNICAL SPECIFICATIONS

FREQUENCY RANGE: 2 to 54 mc.
RESPONSE: 3 db from 2 - 30 mc.
5 db from 2 - 54 mc.
OPERATION AMBIENT: -30 to +160°F.
CONNECTORS: To suit requirements.

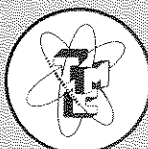
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