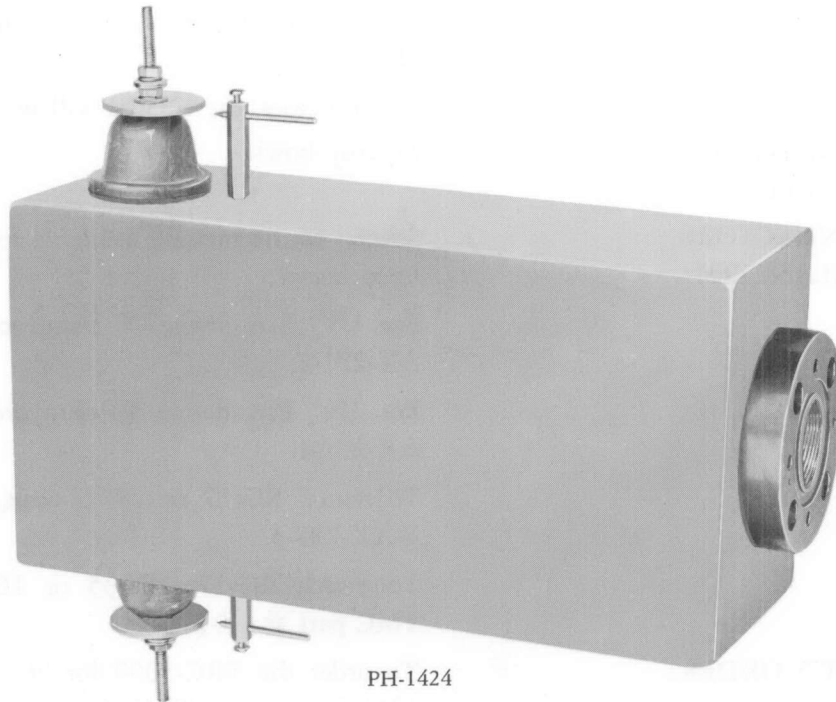


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SALES SERVICE BULLETIN NUMBER 8003

Broadband RF Transformers  
TMC Models TRC-5000-50U-600B  
TRC-5000-70U-600B



TRC-5000 shown without mounting bracket.

TMC Models TRC-5000-( ) series of Broadband RF Transformers provide a simple means of matching RF powers of 50 or 70 ohms unbalanced impedance to 600 ohms balanced impedance, or they may be used from 600 ohms balanced to 50 or 70 ohms unbalanced. These units are part of a family of broadband RF transformers with power handling capabilities from 250 watts to 50 kw PEP.

Models TRC-5000 provide an efficient coupling device to match RF impedances at powers of 5000 watts average or 10,000 watts PEP, over the frequency range of 2 to 28 megacycles.

Models TRC-5000-( ) are housed in fiberglass cases, sealed against weather, are easy to install and require no maintenance whatsoever. By use of these broadband coupling transformers, it is possible to match 50 ohm or 70 ohm co-axial transmission line to Rhombic or other antennas requiring a 600 ohm impedance.

Use of these units at transmitting facilities will allow uniform co-axial transmission system and co-axial antenna transfer installations by providing the impedance match at the transmitting antenna.

TMC Model TRC-5000-( )

TECHNICAL SPECIFICATIONS for TMC Models TRC-5000-( )

AVERAGE POWER: 5000 watts.  
PEAK POWER: 10,000 watts.  
FREQUENCY RANGE: 2-28 megacycles.  
MATCHING CAPABILITY: TRC-5000-50U-600B 50 ohm unbalanced to 600 ohm balanced.  
TRC-5000-70U-600B 70 ohm unbalanced to 600 ohm balanced.  
In both cases, the VSWR will not exceed 2:1.  
RF CONNECTORS (BALANCED): Mykroy bowls.  
RF CONNECTORS (UNBALANCED): Several connectors are available for this unit as outlined below:  
For 1 $\frac{5}{8}$ " EIA flange 70 ohm, order TMC part # AX-271-1.  
For 1 $\frac{5}{8}$ " EIA flange 50 ohm order TMC part # AX-272-1.  
To match RG-17 or 18/U coax, order TMC part # AX-287-3.  
To match RG-17, 18, 35 or 164/U coax, order TMC part # AX-273-4.  
HOW TO ORDER: To order the TRC-5000 for 50 ohm with an EIA 1 $\frac{5}{8}$ " flange, order TRC-5000-50U-600B/AX-272-1.  
INSERTION LOSS: Less than 1 db.  
DIMENSIONS: 5" x 8" x 14"  
WEIGHT: 20 lbs.  
SHIPPING CUBE: Approximately 2 cu. ft.  
SHIPPING WEIGHT: Approximately 32 lbs.  
SAFETY FEATURE: Spark gap for protection against static charge or lightning.  
COMPONENTS AND CONSTRUCTION: Equipment manufactured in accordance with JAN specifications wherever practicable.  
MOUNTING: Brackets on 8 $\frac{1}{2}$ " x 7 $\frac{1}{2}$ " centers for Pole or Wall mount provided.

Note: For matching RF fittings, see TMC Connector Products Catalog.



The TECHNICAL MATERIEL CORPORATION

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