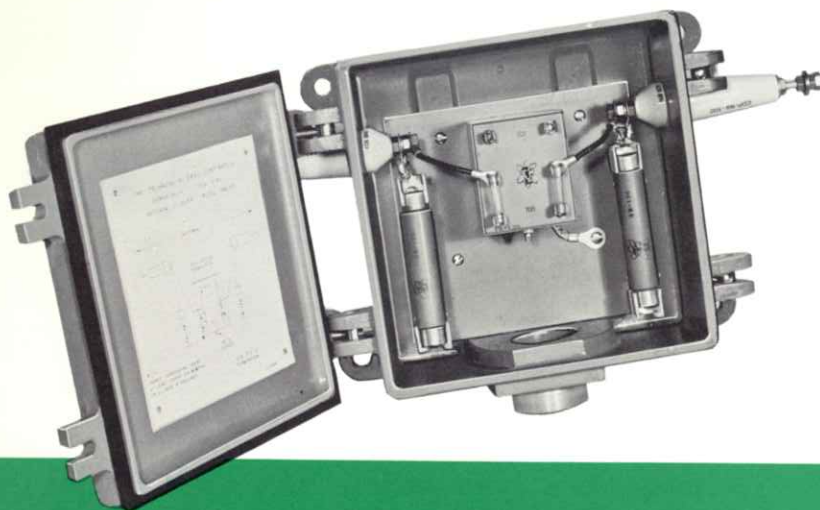


RHOMBIC ANTENNA COUPLER

Series

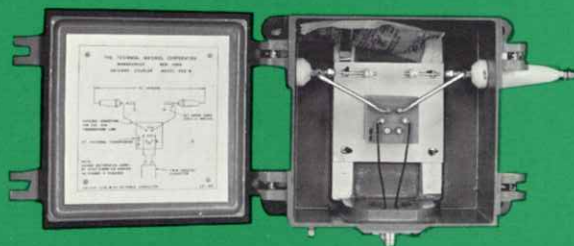
RAC



TMC Model RAC-7

The RAC series of rhombic antenna couplers are designed to provide optimum impedance matching of rhombic antennas and coaxial transmission lines to radio receivers in the 2 to 32 MHz frequency range.

Housed in weatherproof, case aluminum cases for outdoor installation, each unit contains a linear broadband transformer (shown below) that is protected from lightning or static charges by an internal spark gap. The characteristic flat response curve of the transformer minimizes cross-modulation and permits reception of any type signal within the unit's frequency range. The design of the RAC permits continuity checking of the complete antenna system at the coaxial termination to the receiver site. All units are passive devices that require no maintenance, and contain appropriate interconnect diagrams for proper installation.



Revised 15 August 1971  
Supersedes 8006



THE TECHNICAL MATERIEL CORPORATION

AND SUBSIDIARIES

Printed in U.S.A.

## TECHNICAL SPECIFICATIONS

### Frequency Range

As indicated in CHART "A"

### Frequency Response

Maximum deviation  $\pm 1.5$  db

### Impedance Matching

Refer to CHART "A" below

### Terminals

Output terminals are indicated on CHART "B"

Input terminals are ceramic insulators mounted horizontally opposite (See photo).

### Equipment Case

Weatherproof cast aluminum

### Mounting

Four heavy-duty cast flanges

### Weight

Maximum 12 lbs.

### CHART "A"

### MODELS AVAILABLE

Model	Frequency Range	Balanced Input	Unbalanced Output	Transformer TR—
RAC-11	2-30 MHz	300 ohms nom.	50 ohms nom.	012
RAC-9	2-30 MHz	500 ohms	50 ohms	034
RAC-13	2-30 MHz	500 ohms	70 ohms	168
RAC-7A	2-32 MHz	600 ohms	70 ohms	069
RAC-24	2-32 MHz	600 ohms	70 ohms	032
RAC-7	2-32 MHz	600/200 ohms	50 ohms	090
RAC-32	2-32 MHz	600/200 ohms	70 ohms	132
RAC-30	2-32 MHz	700/200 ohms	50 ohms	130
RAC-12	2-30 MHz	800 ohms	50 ohms	112

### CHART "B"

### OUTPUT TERMINALS

/BN	AX-283-1	Type BN Connector
/BNC	AX-284-1	Type BNC Connector
/C	AX-286-1	Type C Connector
/HN	AX-285-1	Type HN Connector
/LC5	AX-287-1	Type LC Connector, 50 ohm
/LC7	AX-287-5	Type LC Connector, 70 ohm
/N	AX-259-1	Type N Connector
/QDL	AX-273-1	Type QDL Connector
/QDS	AX-289-1	Type QDS Connector
/UHF	AX-281-1	Type UHF Connector
/UHFT	AX-282-1	Type UHF Twin Connector
/UHFL	AX-256-1	Type UHF(L) Connector
/ALC5	AX-276-1	3-1/8" Adapter Assembly, 50 ohm to LC female
/ALC7	AX-277-1	3-1/8" Adapter Assembly, 70 ohm to LC female
/ES5	ES-ST5875	7/8" styroflex end seal, 50 ohm
/ES7	ES-ST7875	7/8" styroflex end seal, 70 ohm
/RG8	AX-274-1	Flange for RG-85/U Coaxial Cable



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