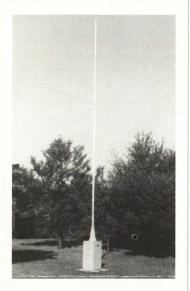


ANTENNA MUTICOUPLERS FIXED OUTPUT

Four, eight, 16 or 32 RF outputs from one antenna, each with a nominal 2dB gain. Broadband input to eliminate tuning. RF filters suppress noise and unwanted signals. VLF, LF, MF, HF and VHF models.

MIXED OUTPUT

Allows a mix of LF, MF and HF in a single unit from one or more receiving antennas. Input filters suppress unwanted RF.



FEATURES

Completely solidstate One or two RF inputs Broadband, no tuning 4, 8, 12, 16 or 32 outputs □ 10kHz-40MHz operation Wide, dynamic range \Box Insertion gain of 2dB □ Multiple input filtering Fuse/overload protect □ MTBF min 20,000 hours □ Frontend surge protect Convection cooled Plug-in modules for expansion to 24 outputs

RECEIVE & TRANSMIT ANTENNAS PASSIVE Series

Vertical antennas in the 15kHz to 30MHz frequency range. Fiberglass whips and telescoping steel or aluminum masts for fixed and mobile stations. Both transmit and receive units.

ACTIVE Series

Passive design equipped with high-intercept amplifiers for a 20dB nominal gain. Bypass circuits detect high RF and protect input circuits. VLF, LF, MF, HF, VHF and UHF models.









RF Antenna Products

The Technical Materiel Corporation





FEATURES

Broadband matching □ 15kHz to 30MHz ranges □ Free-standing verticals Telescope or sectional □ Single-unit construction \Box Pole or wall mounting □ Multiple input styles

Added active features: 20dB gain across band Transmit bypass w/PTT High-RF input detection □ In-line coaxial supply Low-profile RF probe



ANTENNA SYSTEMS & ARRAYS LOG-PERIODIC

Fixed/rotating log arrays in the HF spectrum, both transmit and receive.

DIPOLE/DOUBLET

Directional arrays in single and fan configurations.

RHOMBIC

Large, directional arrays for stations operating in more remote regions.

FEATURES

- □ Full HF spectrum
- Transmit and/or receive

 \Box Up to 20kW rating Single/fan dipoles

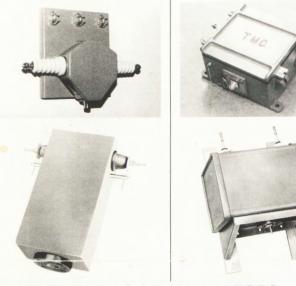
- Optimized to range
- Copper-weld wire

Heavy-duty insulators

□ In service worldwide:

ANTARCTIC, GREENLAND SAHARA DESERT

TELECOMMUNICATIONS ENGINEERING Telephone 914-698-4800 - Facsimile 914-698-4805



DUMMY LOADS & TERMINATORS TRANSMIT Series **FEATURES** Off-line transmit testing

Useful in stations for off-line transmitter testing to verify performance or provide safe conditions for service. Also used to terminate large rhombic antenna arrays. Models range from 100 watts to 300kW with frequencies from DC to 30MHz.

RECEIVE Series

Terminating units for receiving arrays such as sloping-Vee and rhombic antennas. Features low power and high reliability.





□ 100W to 300kW Rating

DC to 30MHz Range

Low reactance curve

Pole or wall mounting

Convection-cooling

□ 30-year service life

Cast aluminum or high-

50, 150, 300, 600-ohm

Casters on indoor units

Rugged construction with optional weather-

proofing, protection

Error-free installation

Safety interlocking

balanced-unbalanced

impact fiberglass case

ANTENNA (BALUN) COUPLERS TRANSMIT Series

Balanced-to-unbalanced impedance matching for RF antennas operating in the 2-30MHz range at power levels of 500 watts to 40kW PEP. All units can combine with L-C filter networks for precision matching.

RECEIVE Series

Broadbanded matching units with flat response curves for receive sites in the 90kHz-32MHz range.

FEATURES

- Broadband coverage
- □ Flat response curve
- Transmit rating to 40kW
- □ Matches 50 or 70 ohms to 150, 300, 600, others
- Optomized to band
- Rugged construction
- U Weatherproofed
- 30-year service life
- Dipole, doublet and \square rhombic arrays
- Broad variety of coaxial line terminations
- Pole or wall mounting universal brackets







TRANSMIT & RECEIVE ANTENNA TUNERS

Provides precision matching of RF transmitters to a variety of antennas in the 1.6 (marine) to 30MHz range. Both digital and analog tuners for fixed and full-range frequency coverage are available.

RF INPUT & OUTPUT FILTERS

Fixed low-pass and switched harmonic tuned filters for suppression of all unwanted RF in transmit or receive channels.

- **FEATURES** Digital or analog tuning
- Channelized operation with all-channel option
- □ Weatherproofed for outdoor marine service
- Equipped with free-
- standing whip antenna
- **FEATURES** Switched harmonic
- and fixed bandpass
- Broadcast stopband
- Up to 40kW PEP rating

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