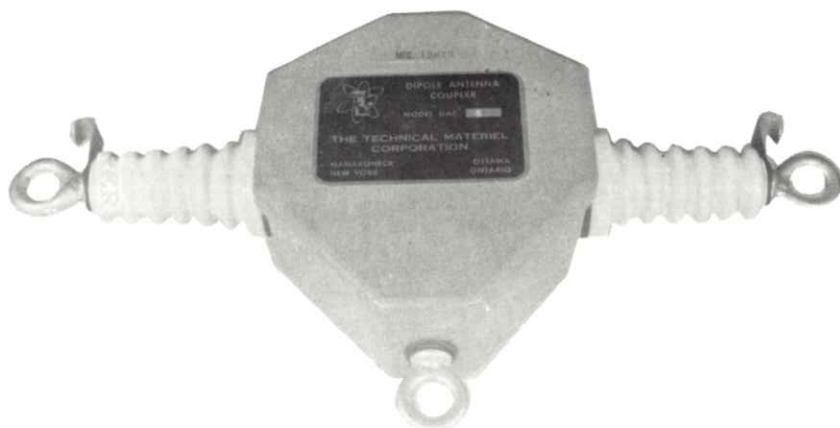




Dipole Antenna Coupler Model DAC

TECHNICAL BULLTEIN 204-4413

- 2-32 MHz
- *Built-in Lightning Protection*
- *Weather resistant*
- *Sealed fiberglass case*
- *Stainless steel connector rings*
- *2,000 pound tensile strength*



The Model DAC Antenna Coupler is an impedance matching device that provides a balanced connection for the center of a receiving dipole to a 50 or 70 ohm unbalanced response over a wide frequency range. However, because dipole antennas are constructed for finite frequencies, the impedance match from the antenna to the coaxial transmission line is dependent on the frequency for which the dipole is cut. The DAC couplers are suitable for single or fan dipole antenna systems.

Stainless steel connector rings are provided for the antenna connector and for messenger tie points. The entire unit is contained within a sealed fiberglass reinforced plastic case, and additional strength and weather resistance is provided by potting the transformer and connectors in a plastic compound. A built-in lightning arrester prevents the accumulation of static charges which might otherwise injure associated equipment.

A tensile test of a sample DAC was conducted by a leading research laboratory to determine the amount of applied tensile stress needed to damage the sample. The sample successfully passed a tensile strain of 2,000 pounds between each of the antenna eye-bolts.

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TECHNICAL SPECIFICATIONS

Transformer Frequency Response

Flat within +/-1.5 db throughout the frequency range of the model.

Equipment Case

Reinforced fiberglass plastic.

Input Terminals

Standard Ring-Type.

Impedance Match

Refer to CHART "A" below.

Size and Weight

12½" wide x 7¾" wide x 2¼" deep maximum including terminals.

Mounting

Pole mounting plate or connector rings.

CHART "A"

MODELS AVAILABLE

Model	Balanced Input	Unbalanced Output	Frequency Range	Connector	TR-
DAC-1	70 ohms nom.	70 ohms nom.	2-32 MHz	N	030
DAC-2	300 ohms	70 ohm	2-32 MHz	N	119
DAC-4	200 ohms	70 ohms	2-32 MHz	BNC	068
DAC-5	70 ohms	70 ohms	2-32 MHz	UHF	030
DAC-6	70 ohms	50 ohms	2-30 MHz	N	120
*DAC-8	70 ohms	50 ohms	2-30 MHz	N	120
DAC-9	475 ohms	50 ohms	2-30 MHz	N	010
DAC-10				N	None
*DAC-13	200 ohms	50 ohms	2-30 MHz	N	039
DAC-14	200 ohms	50 ohms	2-30 MHz	UHF	091

**with pole mounting plate and hardware in place of connector rings.*

Technical Specifications Are Subject to Change Without Notice

THE TECHNICAL MATERIEL CORPORATION

CABLE: TEPEI

700 FENIMORE ROAD, MAMARONECK, NY, 10543 U.S.A.

TLX: 137-358

TEL: 914-698-4800

TWX: 710-566 1100