

PRECISION ELECTRICAL COMPONENTS
for industrial control, guidance, telemetering and audio equipment

h y c o r

HYCOR

Encapsulated

RESISTORS, precision wire-wound

Shock—Moisture—Temperature Proof

The NEW Series "PH" resistors include over 50 types ... from the sub-miniature 0.1 watt, maximum resistance 50 K ohms, to the 4-watt units, 20 megohms.

- Characteristics meet all requirements of MIL-R-93A
- Resistance range from 1.0 ohm to 20 megohms, tolerances to 0.05%
- Temperature Coefficient $\pm 0.0022\%$ per deg. C.
- Operating Temperature -65°C. to $+125^{\circ}\text{C.}$

Send for Bulletin PH

Bulletin PH includes complete information on units with axial and radial leads, lug types and units designed for use in printed wiring assemblies.



Type 128A sub-miniature

Encapsulated

TOROID COILS

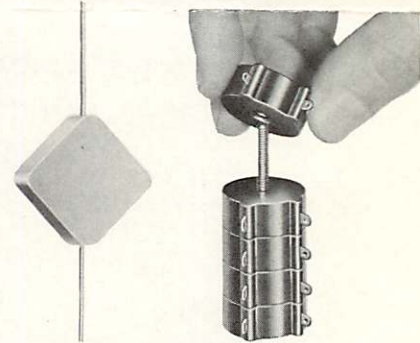
Shock—Moisture—Temperature Proof

The NEW Hycor Type "P" toroid coils are hermetically molded in a special tough plastic compound. They withstand:

- Military temperature requirements
- 95% humidity ... boiling salt water
- Amazing degree of mechanical shock
- MIL-C-16923, Type C, specification tests
- Also available cased and in unencapsulated forms

Send for Bulletin STP

Bulletin STP also includes information on the NEW "Postage Stamp" miniature toroid.



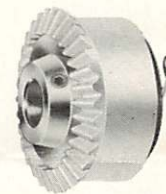
Miniature

MAGNETIC CLUTCHES

- ONLY 1 WATT OF POWER REQUIRED ... to develop 15 oz. in. of torque with a response time of 5 milliseconds. Only two moving parts which eliminate all maintenance problems.
- Minimum dimensions (only 1" o.d.) facilitate their use in compact assemblies.
- Extremely low cost enables designers to utilize the benefits of multiple clutching in inexpensive electronic equipment.

Send for Bulletin C-2

Hycor's systems engineers will be pleased to assist in special design applications.

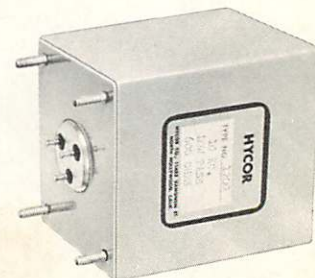


Precision

WAVE FILTERS; Low-pass, High-pass, Band-pass

- Hycor standardized wave filters have excellent characteristics due to the use of high "Q" toroid inductor elements.
- Low-pass, high-pass and band-pass units are standardized in design and are available over wide impedance and frequency ranges.
- Our engineering department is fully equipped to produce special designs in circuit configuration and miniaturization.

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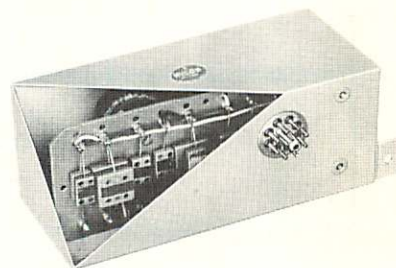


HYCOR

TELEMETERING FILTERS

Hycor offers a complete line of filters for every bandwidth and channel...in standard and sub-miniature sizes...specially designed to conform to new specifications for phase linearity and attenuation accuracy. These filters have a wide variety of applications in control and communications field.

Send for Bulletin TF



Precision

RATIO TRANSFORMERS

- Accurate voltage division and multiplication to accuracies of .01%.
- Accuracy maintained with moderate loading.
- Stock catalog types—specials to order.
- Miniature sizes, plastic encapsulated and hermetically cased to MIL-T-27 specification.

Send for Bulletin RT



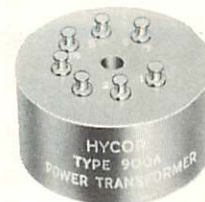
Toroid

POWER TRANSFORMERS; miniature types

- Toroid construction results in high efficiency in small physical size.
- Plastic encapsulated, catalogued types up to 15 V.A. are available. Excellent regulation.
- Frequencies from 400 c.p.s., 115 V. and higher.
- Multiple secondaries for heater and plate voltages.

In addition, special designs are available to suit your application.

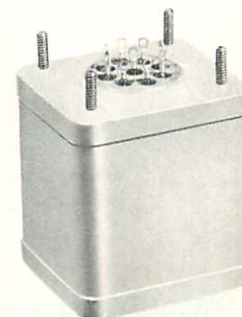
Send for Bulletin WT



MAGNETIC AMPLIFIERS

- Toroid construction throughout; standard catalogued types available in addition to special designs to suit your requirements.
- Line frequencies of 60, 400 and 800 c.p.s.
- Operating temperatures: -55°C . to $+100^{\circ}\text{C}$.
- Cased per military specifications.

Send for Bulletin MA



700 Series

DECADE-INDUCTOR UNITS

- Indispensable for design and experimental work on audio filters, equalizers and tuned circuits at frequencies between 150 to 20,000 cycles.
- Four units are available in ranges from 10 x .001 Henry to 10 x 1.0 Henry. When all four units are connecting in series, 11,110 steps from .001 Henry to 11.11 Henries are obtained.
- The Decade-Units have excellent stability in respect to current and temperature changes and reasonable amounts of D.C. may be run through the units with small effect on inductance.

Send for Bulletin D-2



Type 4201

PROGRAM EQUALIZER

DIMENSIONS: Standard rack panel, slotted, 3½" high. Maximum depth 7½".

CIRCUIT: Bridged T constant impedance.

IMPEDANCE: 500/600 ohms, in-out.

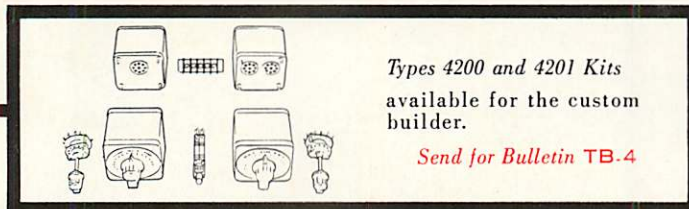
INSERTION LOSS: 14 db constant. Pad compensation when key is in the "out" position.

CONTROLS: Low and high frequency selector switches. Low and high frequency controls in 2 db steps, in-out key.

FINISH: Engraved panel finished in medium gray baked enamel. (Special colors and finishes upon request.)

All capacitors and inductors are hermetically sealed for a lifetime service. Variable attenuators are of the "bridged T" type, with precision wire-wound ceramic spool-type resistors, with an accuracy of 1%.

Send for Bulletin E



Types 4200 and 4201 Kits available for the custom builder.

Send for Bulletin TB-4

Type 4200

VARIABLE FILTER; Low-pass, High pass

DIMENSIONS: Standard rack panel, slotted, 3½" high. Maximum depth 7½".

CONTROLS: Low frequency cutoff selector knob, high frequency cutoff selector knob, on-off key.

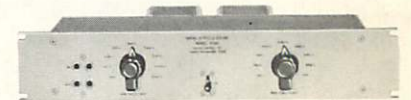
RANGES: Both low and high frequency cutoff controls cover 100, 250, 500, 1000, 2000, 3000, 4000 and 5000 cycles.

ATTENUATION: Approximately 16 db, per octave on both high and low frequency cutoff points.

IMPEDANCE: 500/600 ohms, in-out.

FINISH: Engraved panel finished in medium gray baked enamel. (Special colors available upon request.)

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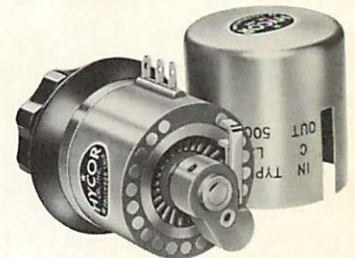


Variable

ATTENUATORS

- Hycor attenuators incorporate the latest developments in the field of electrical plastics, plus a unique mechanical design. As a result, many of the troubles inherent in conventional attenuators have been virtually eliminated.
- Resistive elements and contacts are imbedded in a specially prepared plastic compound which provides protection against extreme humidity, mechanical shock and wide temperature variations.
- Switch contacts are flush in plastic, providing smooth surface easy to clean.
- BRUSHES CANNOT TRIP. Switch noise level extremely low.
- "Lubricated for Life" oil-sealed bearings used for smooth action.

Send for Bulletin A-2



HYCOR

Division of International Resistance Company

12970 BRADLEY AVENUE, SYLMAR, CALIFORNIA, EMPIRE 5-3125