The Tone Detector CDCR-1201 is designed to serve as an interface between a conventional communications receiver and the Frederick Electronics Corporation Morse to Teleprinter Converter, Model-670. The CDCR-1201 accepts, from the receiver, Morse Code signals up to 75 baud in the form of a keyed 2500 cycle audio tone. A system of detection and filtering is provided to permit solid copy over a wide variation in signal to noise ratio and in the presence of rapid fading. After detection and filtering, the Morse information is conditioned to provide signals suitable for keying the 60 ma neutral input loop of the Model-670. The design includes a display module which may be utilized as a visual aid for receiver tuning or to observe the quality of the Morse signals at the output of the detector.

No field changes in effect at time of preparation (5 August 1966).
RELATION TO OTHER EQUIPMENT: None.

EQUIPMENT REQUIRED BUT NOT SUPPLIED:

(1) Morse to Teleprinter Converter, Model-670.

TECHNICAL CHARACTERISTICS:

INPUT
CIRCUIT: Single-ended.
IMPEDANCE: 5,000 ohms, nominal.

SIGNAL
2,500 cps audio tone at 0 dbm or greater from a communications receiver. Detector will not operate when input signal drops to -20 db level.

BAUD RATE: Up to 75 baud.

OUTPUT
CIRCUIT: "Contacts" of an electronic relay.
SIGNAL:
(a) NORMAL-HOLD SWITCH, IN HOLD POSITION: Held in steady mark condition for all inputs.
(b) NORMAL-HOLD SWITCH, IN HOLD POSITION: Held in steady mark condition for all inputs.

BAUD RATE: Up to 75 baud.
CURRENT: Up to 60 ma at 130 dc.
POWER REQUIREMENTS: 115 v ac, 60 cps, 10 w.

MAJOR COMPONENTS

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<thead>
<tr>
<th>QTY</th>
<th>ITEM</th>
<th>DIMENSIONS (INCHES)</th>
<th>WEIGHT (LBS)</th>
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REFERENCE DATA AND LITERATURE:

Frederick Electronics Corporation: Technical Description for Tone Detector, Model-1201.

SHIPPING DATA

PKGS VOLUME (CU FT) WEIGHT (LBS)

PROCUREMENT DATA

PROCURING SERVICE: USN
SPEC &/OR DWG:

1.5 CDCR-1201: 2
<table>
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<tr>
<td>Frederick Electronics Corp., Model-1201</td>
<td>Frederick, Maryland</td>
<td>N600(63133)64427</td>
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