**DTMF to PULSE Dialing Converter**

**Description**
The **DTMF to PULSE Dialing Converter** is an electronic device used to convert the DTMF tones from telephone, modem, or fax equipment to standard telephone pulses. Connecting the device is very easy. Simply connect between the tone source device and the phone line.

**Connection**
The **DTMF to PULSE Dialing Converter** has two RJ-11 connectors and one indicator LED. Connect the telephone line to the jack labeled “LINE”. Connect the phone, modem, or fax device to the jack labeled “PHONE”. The “WAKE-UP” LED will illuminate when the phone device is “OFF-HOOK” and CPU is active.

**Operation**
When the **DTMF to PULSE Dialing Converter** senses an “OFF-HOOK” condition, its CPU will reset and the “WAKE-UP” LED will light. The **DTMF to PULSE Dialing Converter** is now ready to detect DTMF tones. As a sequence of DTMF tones is received from the tone source, the characters are held in a 32 character buffer. When the **DTMF to PULSE Dialing Converter** has not received any DTMF tones for 3 seconds, it will convert the buffer and send the pulses out the phone line. The **DTMF to PULSE Dialing Converter** will convert the tones for numerals “0~9” to standard pulses. The star (*) and pound (#) keys are ignored. When the **DTMF to PULSE Dialing Converter** first goes “OFF-HOOK” or “WAKES UP”, it will wait to receive DTMF tones. If no tones are received within 20 seconds, the CPU will enter sleep mode and any conversion will cease, and DTMF tones will pass through. To enable conversion the CPU must “wake up”. Placing the phone on and then off hook will light the “Wake Up” LED and allow conversion.

**Specifications**
- Powered from the telephone line.
- Detects DTMF tones.
- 32 Character buffer.
- 20 second time-out will cease any conversion.
- Sends the held buffer out as pulses after 3 seconds of not receiving any more tones.
- Pulse dialing rate: 10pps (default) or 20pps (manufacturing option)
- Make/Break ratio: 40:60 (default) or 33.3:66.6 (manufacturing option)

**RJ-11 Pin Out**
- **LINE:**
  - pin 3
  - pin 4
- **PHONE:**
  - pin 3
  - pin 4

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