### Features of NEWI Mallory Audible Signal Devices
- Low Power Consumption
- Low Cost
- Compact Size
- Wide Tone Quality
- Extra Loud Sound Output
- PCB Mount

### Specifications
- Operating Temperature: -20°C to +60°C

### Applications
- Fire Alarm
- Crime Prevention Alarm
- Call Buzzer
- Automatic Clocks
- P.O.S. Equipment
- Medical Instruments
- Electrical Instruments
- Industrial and Safety Equipment

### Ultrasonic Ceramic Sensor/Transducer
It has wide applications for burglar alarm systems, automatic door openers, flow rate detectors, and remote-control systems in TV, home appliance, and toys. Sensors are not washable.

<table>
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<tr>
<th>Type</th>
<th>Class</th>
<th>Ctrl Freq. (kHz)</th>
<th>Sensitivity (dB)</th>
<th>Sensitivity (dB/°C)</th>
<th>Min. Sound Pressure Level (dB)</th>
<th>Max. Sound Pressure Level (dB)</th>
<th>Dimensions (mm)</th>
<th>Physical Size</th>
<th>Leads Length Space</th>
<th>Digi-Key Part No.</th>
<th>Pricing 100</th>
<th>Pricing 500</th>
<th>Pricing 1,000</th>
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<td>Receiver</td>
<td>40.0</td>
<td>-70</td>
<td>-2.0/°C</td>
<td>50</td>
<td>90</td>
<td>15 X 10 X 3.2</td>
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<tr>
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</tbody>
</table>

### Panasonic Piezoelectric Ceramic Buzzer Units
- Low power consumption
- Wide operating range of supply voltage: 3 to 20VDC
- Operating Temperature: -20°C to 60°C

### Piezoelectric Ceramic Buzzer Units
- Ultrasonic Ceramic Sensor/Transducer
- Operating Voltage: DC (V)
- Max. Operating Current (mA)
- Pulse Rate: Per Second
- Price Each

### Figures
- Fig. 1: Ultrasonic Ceramic Sensor/Transducer
- Fig. 2: Example Driving Circuit (For Self Drive Type)
- Fig. 3: Features For All Others
- Fig. 4: Low Power Consumption
- Fig. 5: Applications: Smoke detectors, alarms, detectors, home appliances, radio beepers, electronic games, keyboard signalers, cameras, and telephone rings.
- Fig. 6: P9949 and P9958 Features
- Fig. 7: Drive oscillator circuit will run directly from commercially used voltage source such as dry batteries.
- Fig. 8: High sound level and low input voltage
- Fig. 9: Ultrasonic Ceramic Transducers
- Fig. 10: Ultrasonic Ceramic Transducers
- Fig. 11: Ultrasonic Ceramic Transducers
- Fig. 12: Ultrasonic Ceramic Transducers
- Fig. 13: Ultrasonic Ceramic Transducers
- Fig. 14: Ultrasonic Ceramic Transducers
- Fig. 15: Ultrasonic Ceramic Transducers
- Fig. 16: Ultrasonic Ceramic Transducers
- Fig. 17: Ultrasonic Ceramic Transducers

### More Product Available Online: www.digikey.com
934 (T032)
Toll-Free: 1-800-344-4539  •  Phone: 218-681-6674  •  Fax: 218-681-3380

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**NOTE:** All buzzers and microphones are non-washable.

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**Temp. Range:** -20°C to 60°C
**Temp. Range:** 40°C to 100°C

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**Enclosed Type**

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**Type U Standard Type**

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**Type S Temperature Stable Type**

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**Panasonic Mallory Products, Inc.**

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**Features:**
- High sound level and low input voltage
- Ultrasonic Ceramic Sensor consisting of a disc/bimorph type piezoelectric ceramic vibrator that is used as a sensor for transmitting and receiving ultrasonic in the air. Since the ultrasonic sensor has a resonance type vibrator, it is high in sensitivity and has outstanding sound pressure level.

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**Specifications:**
- Frequency: 3400 Hz
- Operating Voltage: 12VDC
- Max. Operating Current: 3mA
- Price: 364.00