# **Piezoelectric Speaker**



#### KSN 1152A High Output Alarm Annunciator Datasheet

#### Applications

Specific Applications	<ul> <li>SODAR (Wind Profiling)</li> <li>LRAD Long Range Acoustic Device</li> <li>Automotive, Aircraft, Trains, Ships</li> <li>Radios</li> <li>Medical Equipment</li> <li>High Fidelity Sound Reproduction</li> <li>Bioacoustics</li> <li>Alarms/Alerts</li> <li>Transducer</li> <li>Pest Repellent (Rodents, Birds, etc.)</li> </ul>

Appearances and Dimensions





- 1.Low power consumption
- 2. High sensitivity
- 3. Withstand harsh environment

	Specifications	Standard Packing Quantity	Gross Weight
	14"x15"x19"	432 pcs	10.14 kgs

Packaging Information

# Front View No connection to this terminal Rear View Rear View



Address: 250 East Gish Rd. San Jose, CA 95112 Phone: 408-487-1700 Email: sales@piezosource.com

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**Warning:** A 30-ohm series resistor is recommended to assure stability of extended range amplifiers and preclude hazard of burnout.

**Warning:** Do not operate at continuous high voltage. At frequencies below 20 kHz, daily sound pressure exposures in excess of one hour at 105 dB may lead to hearing impairment.

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#### **RoHS CONFORMITY CERTIFICATE**

The European RoHS Directive 2011/65/EU of the European Parliament and the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (also known as "RoHS Recast").

On the basis of information's obtained from our external providers, we hereby declare that the products listed below are in compliant with all requirements and its subsequent exemption sent by the EU RoHS 2 (Directive 2011/65/EU) and the European Delegated Directive (EU) 2015/863 and will be delivered like such starting from the emission date of this certificate.

Our products do not contain the substances listed in the table below (EU RoHS 10 substances) in concentrations greater than the listed Maximum limit value at homogeneous material level:

Substances	Maximum Limit (1)	
Lead (Pb)	< 1000 ppm	
Mercury (Hg)	< 1000 ppm	
Cadmium (Cd)	< 1000 ppm	
Hexavalent Chromium (Cr VI)	< 1000 ppm	
Polybrominated Biphenyls (PBB)	< 1000 ppm	
Polybrominated Diphenyl Ethers (PBDE)	< 1000 ppm	
Bis(2-Ethylhexyl) phthalate (BBP)	< 1000 ppm	
Dibutyl phthalate (DBP)	< 1000 ppm	
Diisobutyl phthalate (DIBP)	< 1000 ppm	

**Note: (1)** Maximum limit does not apply to applications for which exemptions have been granted by the EU RoHS directive Recast.

#### **RoHS Conformity means that:**

- Our external providers confirmed the conformity of their components used in this product.
- Our manufacturing processes respect the RoHS directive in this product.
- We carry out tests on materials when necessary.
- We put in place rigorous processes, allowing us to confirm and document this conformity.

### Note: (1): Our Ceramic part is lead zirconate titanate piezoelectric ceramics. Exemptions claimed. **Exemptions: Annex III n. 7(c) - 1**

*"Electrical and electronics components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound"*