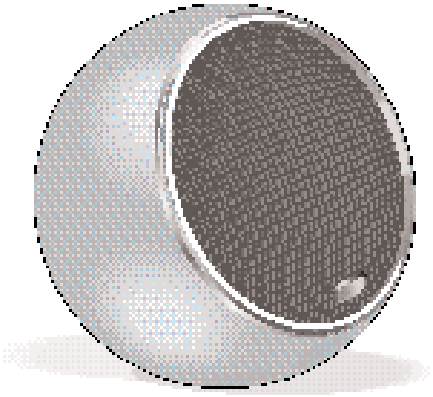


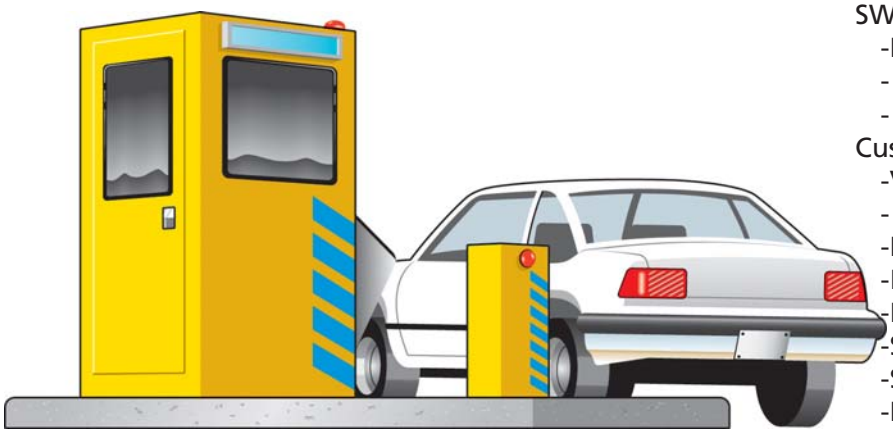
Audio/Acoustic
- -Microphones
  - •Dive Helmets
  - •Gas Mask
  - •Contact
- -Stethoscope
- -Acoustic Pickups
- -Flow Sensors
- -Speakers
  - •Novelty Consumer
  - •Tweeters
  - •Pagers

Ultrasound (40 kHz & 80 KHz)
- -Air-Ranging Proximity
- -Medical Imaging Catheters
- -Phased Array
- -Acoustic Emission
- -Level Sensors (Inkjet, toner)
- -Robotic Tactile Sensors
- -Variable Force Sensors
- -Digitizers

Switch

SW100 Series
- -Pinball Impact Switches
- - Gaming Machine Switches
- - Utility Meter Counters

Custom Switches
- -Vector Switch/Joystick
- - CMOS Circuit Wake-Up Switch
- -Pacinko Game
- -Electronic Piano Keys
- -Impact Printer Timing Switch
- -Sports Target (Impact)
- -Snap Action Switches
- -Beam Switch



Piezo Cable
- -Step Switches
- -Pedestrian Safety Mats (Fence & Buried)
- -Perimeter Security
- -Antitamper

Traffic Sensors

Series BL
- -Vehicle Classification
- -Weight-in-Motion
- -Speed/Red Light Enforcement
- -Airport Taxiway
- -Security/Safety

Effective: August 1st, 2008

Metallized Piezo Film Sheets

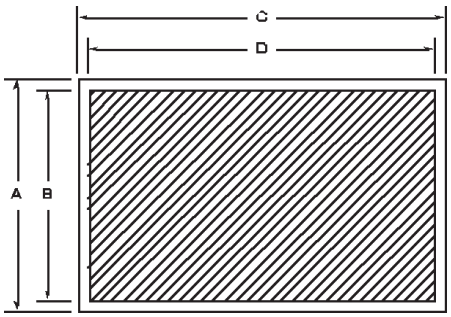
Piezo film is available in a variety of different film sizes and thicknesses. These can be fabricated into simple transducers, or for use as full size sheets for applications such as speakers.

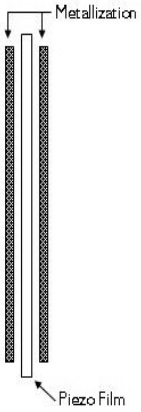
Piezo Film is available in different thicknesses. Thinner films (28 and 52 µm) are the most common, due to their higher capacitance and good mechanical qualities. Thicker film (110 µm) is used where maximum robustness is needed, or if the sensor is being used in a thickness mode (d_{33}) application.

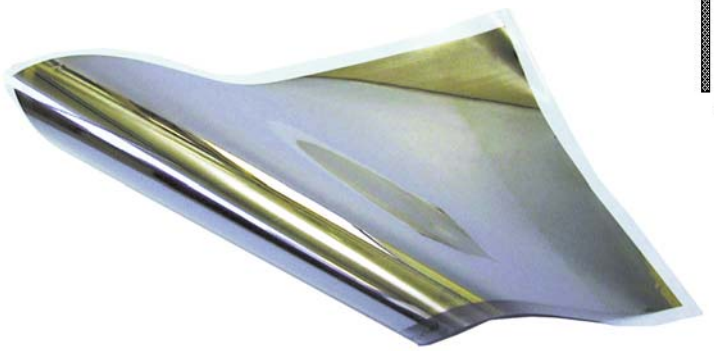
Metallization options include a compliant silver ink as well as sputtered metallization. The silver ink is best for applications where mechanical stress is being applied. Silver ink lends itself to custom metallization patterns for easy lead attachment.

Thin sputtered metallization is brittle and used where signal to noise requirements dictate very low mass loading by the electrodes. Our standard sputtered metallization is 700Å of copper covered with 100Å of nickel change NiCu Alloy to Cu with Ni, which has good conductivity and is resistant to oxidation. Other metallizations such as gold are available on a custom basis with a set up fee. For the sputtered metallized film, there is no border.

These are only general rules, and a discussion with our applications engineers will help you to make the best choice for your specific application.







DIMENSIONS in INCHES (mm)

Description	A Film	B Electrode	C Film	D Electrode	t (µm)	Metallization	Part Number
28 µm piezo film	8.00 (203)	8.00 (190)	11.00 (280)	11.00 (267)	28	Cu-Ni	1-1003702-7
28 µm piezo film	8.00 (203)	7.50 (190)	5.50 (140)	5.00 (127)	40	Silver Ink	1-1004347-0
28 µm piezo film	8.00 (203)	7.50 (190)	11.00 (280)	10.50 (267)	40	Silver Ink	1-1004346-0
52 µm piezo film	8.00 (203)	8.00 (190)	11.00 (280)	11.00 (267)	52	Cu-Ni	2-1003702-7
52 µm piezo film	8.00 (203)	7.50 (190)	5.50 (140)	5.00 (127)	64	Silver Ink	2-1004347-0
52 µm piezo film	8.00 (203)	7.50 (190)	11.00 (280)	10.50 (267)	64	Silver Ink	2-1004346-0
110 µm piezo film	8.00 (203)	8.00 (190)	11.00 (280)	11.00 (267)	110	Cu-Ni	3-1003702-7
110 µm piezo film	8.00 (203)	7.50 (190)	5.50 (140)	5.00 (127)	122	Silver Ink	3-1004347-0
110 µm piezo film	8.00 (203)	7.50 (190)	11.00 (280)	10.50 (267)	122	Silver Ink	3-1004346-0

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Please contact the factory for pricing and custom part quotations.
800.745.8008