SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MA Metallized Piezo Film Sheets

Thin, flexible film sheets Multi-purpose ... design your own Sensor Different Electrode Options – Sputtered metallization or Silver inlk

Various Film Thickness Options

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

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 also lends itself to custom metallization patterns for easy lead attachment.

The thin, sputtered metallization is more brittle and used where signal to noise requirements dictate very low mass loading by the electrodes. Our standard sputtered metallization is 700 A of copper covered with 100A of nickel, 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.

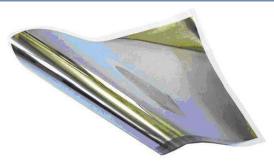
FEATURES

- Film Thickness Options: 28µm, 52µm, 110µm PVDF
- Electrode Type Options: Silver Ink & NiCu Metallization
- Sheet Size Options: 8" x 5.5" and 8" x 11"

APPLICATIONS

- Film Transducer
- Speaker Element

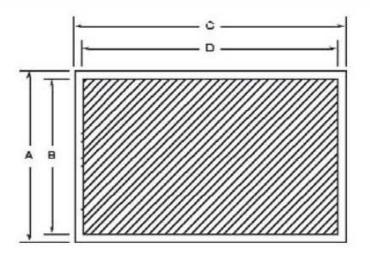
typical specifications						
Electro-Mechanical Conversion	(1 direction) 23 x 10 ⁻¹² m/V, 700 x 10 ⁻⁶ N/V (3 direction) -33 x 10 ⁻¹² m/V					
Mechano-Electrical Conversion	(1 direction) 12 x 10 ⁻³ V per microstrain, 400 x 10 ⁻³ V/µm, 14.4V/N					
Pyro-Electrical Conversion	(3 direction) 13 x 10 ⁻³ V/N 8V/°K (@ 25°C)					
Capacitance	1.36 x 10 ⁻⁹ F; Dissipation Factor of 0.018 @ 10 KHz; Impedance of 12 K Ω @ 10 KHz					
Maximum Operating Voltage	DC: 280 V (yields 7 µm displacement in 1 direction) AC: 840 V (yields 21 µm displacement in 1 direction)					
Maximum Applied Force (at break, 1 direction)	6-9 kgF (yields voltage output of 830 to 1275 V)					

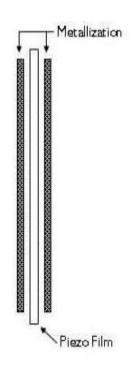




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DIMENSIONS in INCHES (mm)

Film Thic	kness	Total Thickness (μm)	Metallization	A Film	B Electrode	C Film	D Electrode	Part Number
28	μm	28	Cu-Ni	8.00 (203)	8.00 (190)	11.00 (280)	11.00 (267)	1-1003702-7
28	μm	40	Silver Ink	8.00 (203)	7.50 (190)	5.50 (140)	5.00 (127)	1-1004347-0
28	μm	40	Silver Ink	8.00 (203)	7.50 (190)	11.00 (280)	10.50 (267)	1-1004346-0
52	μm	52	Cu-Ni	8.00 (203)	8.00 (190)	11.00 (280)	11.00 (267)	2-1003702-7
52	μm	64	Silver Ink	8.00 (203)	7.50 (190)	5.50 (140) [´]	5.00 (127)	2-1004347-0
52	μm	64	Silver Ink	8.00 (203)	7.50 (190)	11.00 (280)	10.50 (267)	2-1004346-0
110	μm	110	Cu-Ni	8.00 (203)	8.00 (190)	11.00 (280)	11.00 (267)	3-1003702-7
110	μm	122	Silver Ink	8.00 (203)	7.50 (190)	5.50 (140)	5.00 (127)	3-1004347-0
110	μm	122	Silver Ink	8.00 (203)	7.50 (190)	11.00 (280)	10.50 (267)	3-1004346-0

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