

METALLIZED PIEZO FILM SHEETS



FEATURES

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

APPLICATIONS

- ◆ Film Transducer
- ◆ Speaker Element

SPECIFICATIONS

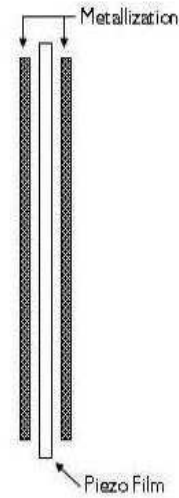
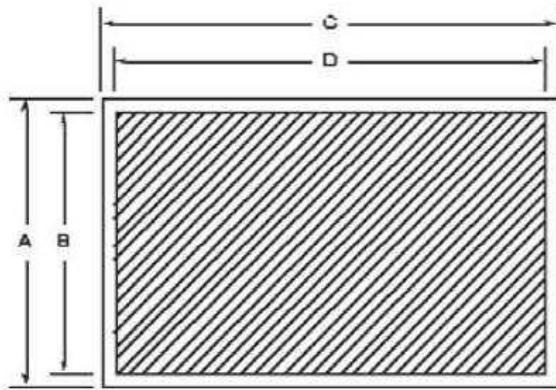
- ◆ **Thin, flexible film sheets**
- ◆ **Multi-purpose ... design your own Sensor**
- ◆ **Different Electrode Options – Sputtered metallization or Silver ink**
- ◆ **Various Film Thickness Options**

Piezo Film Sheets are available in 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 Å of copper covered with 100 Å 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.

DIMENSIONS



DIMENSIONS in INCHES (mm)

Film Thickness	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

TYPICAL SPECIFICATIONS

Electro-Mechanical Conversion

(1 direction) $23 \times 10^{-12} \text{m/V}$, $700 \times 10^{-6} \text{N/V}$
 (3 direction) $-33 \times 10^{-12} \text{m/V}$

Mechano-Electrical Conversion

(1 direction) 12 mV per microstrain, 400 mV/µm, 14.4 V/N

Pyro-Electrical Conversion

(3 direction) 13 mV/N
 $8 \text{V}/^\circ \text{K}$ (@ 25°C)

Capacitance

1.36 nF; Dissipation Factor of 0.018 @ 10 KHz;
 Impedance of 12 KΩ @ 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)

NORTH AMERICA

Measurement Specialties, Inc.,
a TE Connectivity Company
Tel: +1-800-522-6752
Email: customercare.dtm@te.com

EUROPE

MEAS Deutschland GmbH
a TE Connectivity Company
Tel: +49-800-440-5100
Email: customercare.dtm@te.com

ASIA

Measurement Specialties (China), Ltd.,
a TE Connectivity Company
Tel: +86 0400-820-6015
Email: customercare.chdu@te.com

TE.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties, TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.