

Model 901 Micro-Miniature Feed-thru



The **Model 901** micro-miniature feed-thru has been developed for signal transmission in pyroelectric and X-ray detectors.

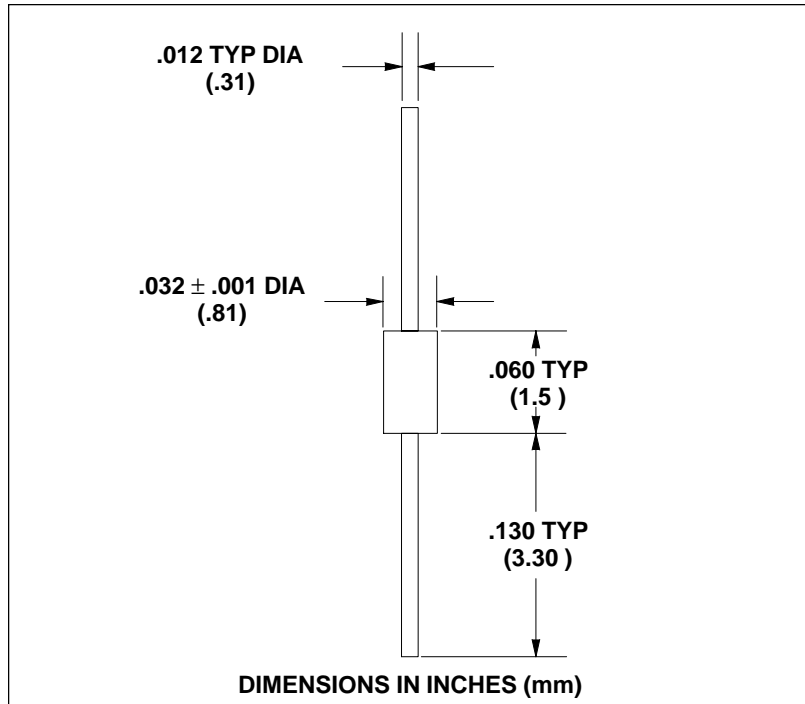
Small size and reliability in vacuum, radiation, high temperature, and high shock environments are essentials in these sophisticated instruments.

The inner pin is insulated from the outer sleeve by ceramic, sealed with a high performance epoxy.

The outer sleeve may be mounted into an assembly by using epoxy.

Connection to the pin may be made by soldering or spot-welding.

Feed-thrus with customer dimensions can be made to order.



The Model 901 incorporates an epoxy adhesive which exhibits outstanding physical and dielectric properties from -25C to +200C.

This epoxy contains no solvents or volatile matter. It has a specific gravity of 1.5. Also, it is listed in the NASA Outgassing Data Publication 1061, #N80-30441. This epoxy is listed as having a 0.08% CVCM and a 0.52% TML, which is below the maximum NASA requirement of $\leq 0.1\%$ CVCM and $\leq 1.0\%$ TML.

The thickness of the epoxy used in the Model 901 between the ceramic and the contact ranges from 1 to 4 mils.

NOTICE: The information provided herein is believed to be reliable. However, ELTEC Instruments, Inc. assumes no responsibility for inaccuracies or omissions. Due to industry components being incorporated into ELTEC's devices and ELTEC continually striving for product improvement, specifications may change without notice.

Model 901 Specifications

- Insulation Resistance: . . . $>10^{14} \Omega$
- Operating Temperature: . -25 C to +200 C
(248K to 473K)
- Maximum Voltage: 200 V Peak
- Capacitance: $<0.6 \text{ pF}$
- Sleeve: 304 Stainless Steel
- Pin: Nickel
- Insulator: Aluminum Oxide Ceramic
- Sealer: Special epoxy, recommended for use in radiation, high temperature and vacuum (up to 10^{-7} torr.).



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