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 reliablility 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.

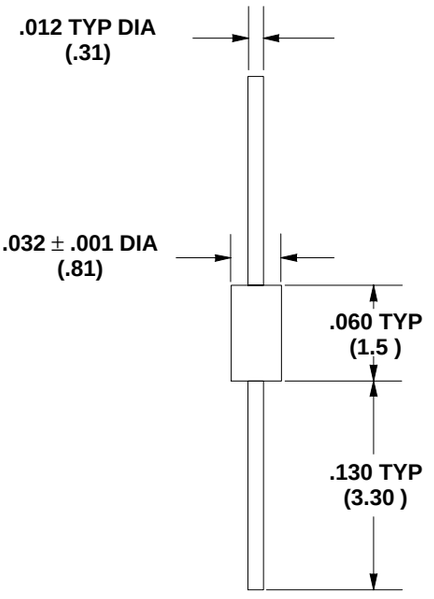
Connection to the pin may be made by soldering or spot-welding.

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 -25^{o}C to +200^{o}C.

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 1124. This epoxy is listed as having a 0.08% CVCM and a 0.52% TML, which is below the maximum NASA requirement of ≤ 0.1% CVCM and ≤ 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.



DIMENSIONS IN INCHES (mm)

Model 901 Specifications

Insulation Resistance: . .	>10^{14} Ω
Operating Temperature: .	-25^{o}C to +200^{o}C (248K to 473K)
Maximum Voltage:	200 V Peak
Capacitance:	<0.6 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.).

ELTEC Instruments, Inc. P.O. Box 9610 Daytona Beach, Florida 32120-9610 U.S.A.
Tel (USA and Canada): (800) 874-7780 Tel (Outside USA): (386) 252-0411 Fax: (386) 258-3791
Web: www.eltecinstruments.com E-Mail: Sales@eltecinstruments.com