

## 441M34

## DETECTOR SPECIFICATIONS DATA SHEET

January 25, 1990

MODEL: 441M34 DETECTOR TYPE: Single Element ELEMENT SIZE: 2.5 mm x 2.5 mm ELEMENT MATERIAL: Lithium Tantalate OPTICAL BANDWIDTH: 0.1 to 1000 microns

RESPONSIVITY (TYP.): 260 V/W

NOISE (TYP.): 4.51 µVrms/√Hz

NEP (TYP.): 1.74 x 10<sup>-8</sup> W/√Hz

D STAR (TYP.): 1.43 x 107 cm√Hz/W

CHARACTERISTICS AT: (with -1 Filter) 2.0 µm to 25.0 µm, 500°K, 10 Hz, 1 Hz BW, Rt = 25°C, V = + 8 V dc

OPERATING VOLTAGE (MIN. & MAX.): + 5 to 15 V dc REFERENCE VOLTAGE (MIN. & MAX.): + 2.42 to 2.58 V dc (At a maximum load current of 100 µA.) OFFSET VOLTAGE (MIN. & MAX.): + 2.00 to 3.00 V dc CURRENT DRAW (MAX.): 2.2 mA OUTPUT VOLTAGE (MAX): V+ Rail - 100 mV

RECOMMENDED OPERATING TEMPERATURE: 0 to +70 °C STORAGE TEMPERATURE: -55 to +125 °C FUNCTIONAL Delta T < 50 C°/minute

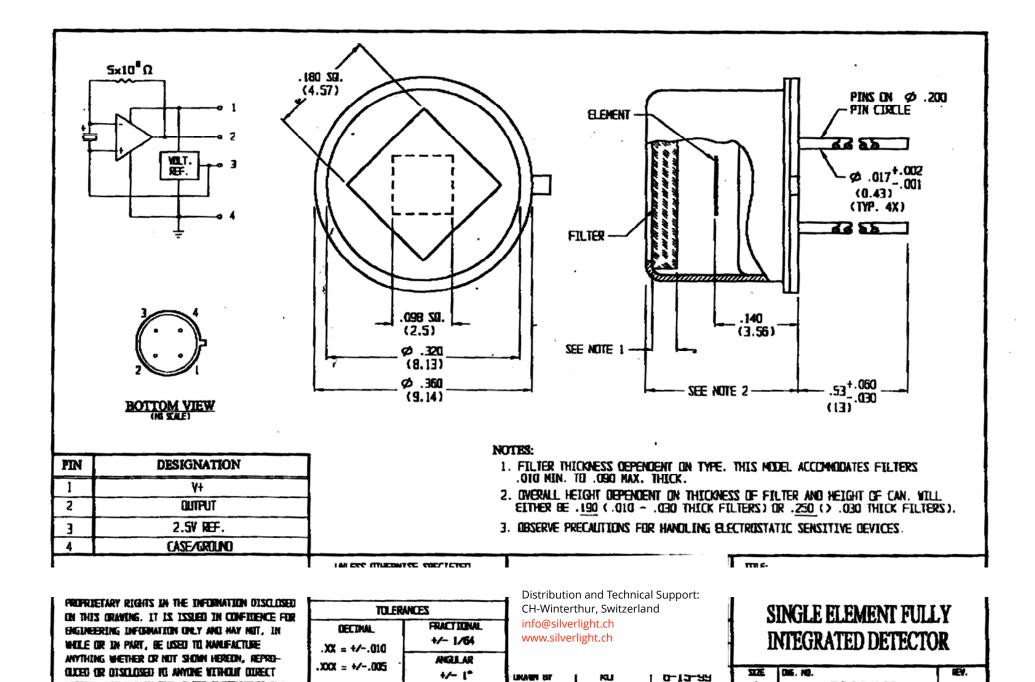
OUTPUT POLARITY: Negative for a positive change OUTPUT LOAD (MIN.): 10 KOhms OUTPUT PROTECTION: Short circuit protected but DO NOT REVERSE SUPPLY VOLTAGES.

(Data is established on a sample basis and is believed to be representative.)

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