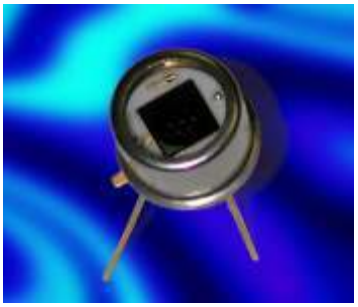
Dual Silicon Sandwich Detector

Two Photodiodes in One TO-5 Can for Non-contact Color Temperature Ratio Measurement and Space Savings

Advanced Photonix, Inc. (ASE: API) introduces its new Dual PIN Silicon Sandwich Detector. The **SD138-11-31-211** device utilizes a unique design including two silicon PIN photodiodes vertically integrated in a hermetic TO-5 package. The top photodiode absorbs a portion of the light and the remaining light is transmitted to the bottom photodiode. The current ratio of the two photodiodes is used to remotely determine and monitor the color temperature of an object.



API is a US based manufacturer of world class opto-electronic solutions to a global OEM customer base. Our solutions are based on our patented high speed optical receivers in in PIN and APD configurations including silicon Large Area Avalanche Photodiode (LAAPD), UV/ Blue /Red enhanced process PIN photodiodes, and filtered detectors, as well as InGaAs NIR photodiodes and LED arrays. Our served markets are: Sensors, Homeland Security, Military, Medical, Instrumentation and Industrial/Non-destructive Test.

Features:

- Large Active Area
- Low Noise
- High Shunt Resistance
- Hermetically Sealed
- High Saturation

Applications:

- Dual Wavelength Power Meters
- Remote Color Temperature Sensing