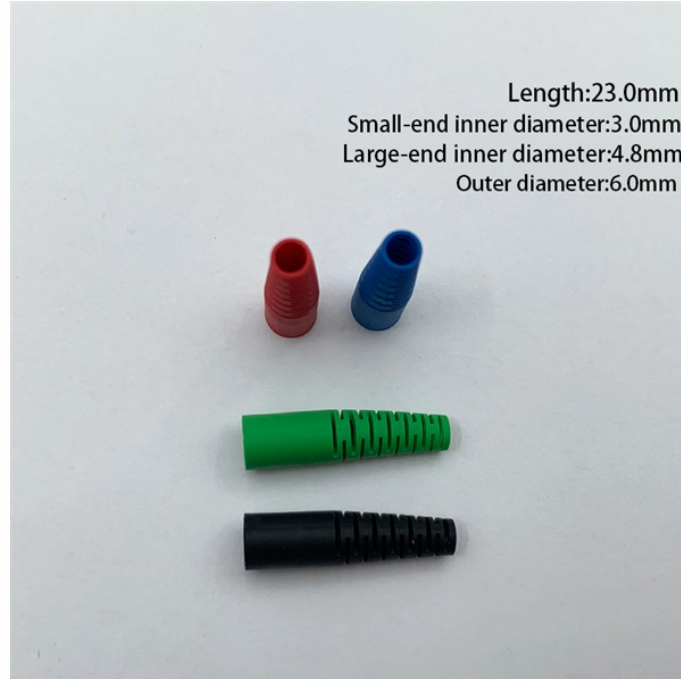


Spectrophotometer Chip



Spectrophotometer Chip



This chip offers an innovative solution for spectral analyses, making it possible to measure the optical spectrum of a wide variety of objects quickly and precisely - both in transmission ...



In this paper, we present a chip-scale MIR digitalized MEMS-enabled computational spectrometer (d-McS) on the SOI platform using silicon photonics MEMS technology and ...



Chip-scale spectral sensing from ams OSRAM makes this possible. This technology can be used to measure an ever-increasing range of conditions from the moisture content of food, or hydration levels ...



The potential applications for this higher-density and smaller-footprint chip technology extend beyond biosensing and health monitoring into other areas, such as ultra-small wearables, clothing, or ...



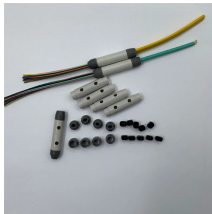
By integrating an optical spectrometer on a chip, ams offers designers a viable approach for meeting these requirements. The ams AS7262 and AS7263 ICs are complete single-chip ...



Here, the authors present a chip-scale reconstructive spectroscopic sensor that achieves >520 nm bandwidth with <8 pm resolution, demonstrating various spectrometric applications and...



Here we demonstrate a compact, lightweight microspectrometer chip-scale solution based on doped silicon nanophotonic elements, known as waveguide array (WGA) pixels.



Research involving two-dimensional semiconductors has led to an ultra-tiny spectrometer that fits on a microchip and is operated using artificial intelligence.



This chip offers an innovative solution for spectral analyses, making it possible to measure the optical spectrum of a wide variety of objects quickly and ...



Resting on a fingertip, this miniature sensor replaces bulky laboratory equipment by using photon-trapping surface nanostructures and artificial intelligence (AI) to accurately analyze disease, ...



This week, photonics startup Rockley announced a new laser spectrophotometer chip for wearables. One of the most significant aspects of the release is the chip's use of micro-transfer ...

Contact Us

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