

1.0 Main Features

- Compact overall size
 - 11.5mm x 11.5mm x 7.92mm
 - (Excluding PCB thickness)
- Optical Format: 1/3 inch
- Pixels: 3 or 5 Megapixels
- Low Operating Voltage
 - 3.2 to 4.2 V range
 - 2.8 V on the coil
- Low Power Consumption
 - Nominal operating power 93 mW
 - zero power at infinity focus
- Superior lens positioning performance
 - Positioning repeatability: $\pm 5\mu\text{m}$
 - Linearity: $\pm 10\mu\text{m}$
 - Hysteresis performance: $\pm 20\mu\text{m}$
- Proprietary MEMS actuated stage design
- Long service life: 1,000,000 cycles or more
- High shock tolerance: > 6000 g's
- Fast settling time: 33ms or less
- Adapted with mechanical shutter capability
- Proprietary algorithm to eliminate ringing
- Temperature Range: -20° to 85° C



SiimpelFocus™ SF9X camera module

2.0 Description

The SiimpelFocus™ 9X camera module is a high performance, compact, auto-focus camera module designed for 1/3 inch optical format for 3 or 5 megapixel image sensors. It is intended for use in cell phone cameras or other space-constrained applications. It features low power consumption, high performance M7 lens optics, precision positioning repeatability, linearity, and hysteresis. It achieves its positioning precision and repeatability capabilities through its unique and proprietary micromachined MEMS silicon stage design. It is capable of more than 1,000,000 infinity-to-close focus cycles with no degradation in performance. None of the moving parts will mechanically fatigue.

3.0 Applications

- Portable Devices
- Mobile phone, Smart phone