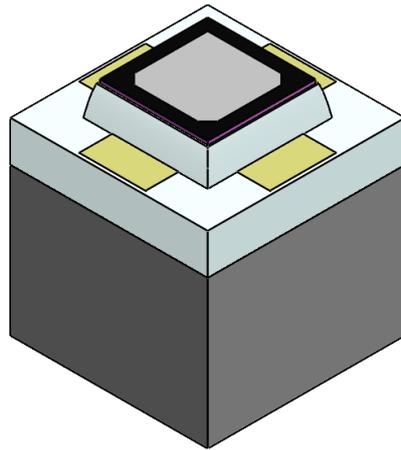




MiiS MCMF-S Product Specifications



400x400 Micro-Camera Module Technical Specifications

Micro-Camera Module (MCM) is an All-In-One micro-camera solution for endoscope application and especially for the medical endoscopy. It has low voltage, high-performance, high sensitivity global shutter pixel and special design for medical endoscopic applications. MiiS applies the advanced wafer-level semiconductor package technology to integrate the micro-lens, CMOS image sensor (CIS), mini-LED, and high quality substrate to make this micro-camera module with ultra-small form factor. The micro-camera module delivers the signal through micro coaxial cables to a matched ISP and shows the high quality images, that is, makes a minimal size of endoscopes come true. The MCMF-S product delivers most compact size of 400x400 pixels camera module in worldwide and especial suitable for the ultra-small size endoscopic applications.



Absolute Maximum Ratings

Table 1 MCM Absolute Maximum Rating

| Parameters | Value | Unit | Remark |
|---------------------------------------|-------------------------------|------|--------|
| V _{DD} (with respect to GND) | 4.5 | Volt | |
| Voltage to any IO | -0.3 to V _{DD-IO} +1 | Volt | |
| Current to any IO | +/- 200 | mA | |
| Ambient Storage Temp. | -40 ~ +85 | °C | |

General Specifications

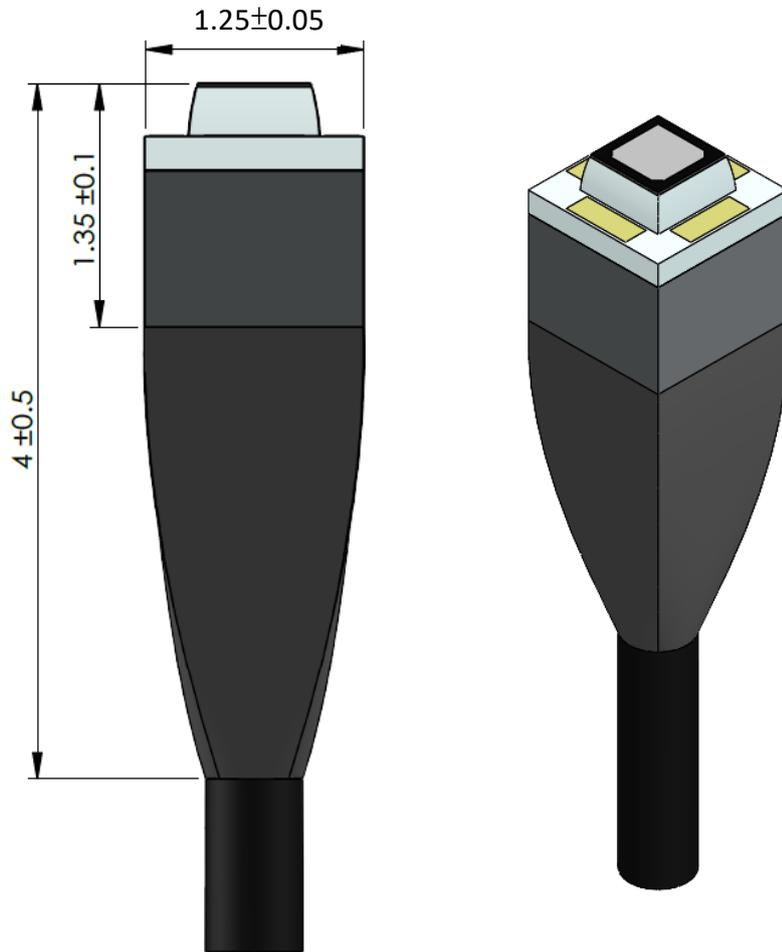
Table 2 MCM General Specifications

| Parameters | Unit | Value | Remark |
|----------------------------|--------|---------------------|-------------|
| MCM Dimension | mm | Min. 1.25x1.25x4.85 | |
| Resolutions | Pixels | 400 x 400 | |
| Sensing Area | um | 411.26 x 411.26 | |
| Field of View (Horizontal) | Degree | 100 | +/- 6 |
| Field of View (Diagonal) | Degree | 120 | +/- 6 |
| F Number | / | 2.8 | |
| Depth of Field | mm | 2 ~ 60 | |
| TV Distortion | / | < 11% | @ 95% field |
| LED Color and CCT | / | White | |
| Frame Rate | fps | 30 | |
| IR Band Pass Filter | nm | 660 +/- 10 | 50% cut-off |



Mechanical Drawings

Model Name: MCMF-S160090 Series / PN: 9.B9314 & 9.C9314 Series



1. Dimensions are in millimeters.
2. Tolerances unless mentioned are ± 0.1 mm.