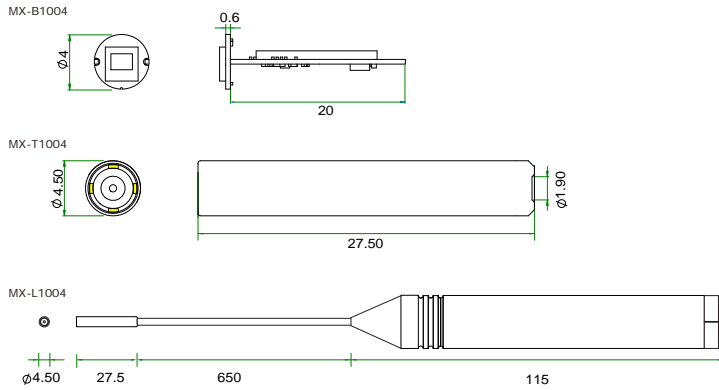


**Board Type**



**Feature**

- High Sensitivity!
- High Performance & Super low light.
- Night Vision / Low Light Camera
- Compact size

**Specification**

unit : mm (±0.5)

- Auto Exposure ; • Auto White Balance
- Noise Reduction
- Black Level Calibration
- On-Chip Dead Pixel Correction ; • Edge Enhancement
- Brightness
- Gamma Correction; • Color Correction; • Lens Shading Correction

| Model                      | MX-B1004KL  | MX-B1004L | MX-T1004KL | MX-T1004L |
|----------------------------|---|-----------|------------|-----------|
| Video system               | NTSC / PAL  |           |            |           |
| Pixel Size                 | 2.125um X 2.125um   |           |            |           |
| Active Image Size          | 1.370mm(H) X 1.040mm(V) X 1.720mm(D)                      |           |            |           |
| Number of effective pixels | 640 x 480   |           |            |           |
| Image sensor               | 1/10" Hybrid Sensitivity CMOS color                       |           |            |           |
| Resolution(TV Lines)       | 450 TV Lines  |           |            |           |
| Sensor scan mode           | Internal scan   |           |            |           |
| Frame Rate                 | 15fps   | 30fps     | 15fps      | 30fps     |
| Horizontal sync frequency  | NTSC/EIA -15.734kHz , PAL/CCIR - 15.625kHz                |           |            |           |
| Vertical sync frequency    | NTSC/EIA - 60Hz , PAL/CCIR - 50Hz                         |           |            |           |
| Gamma consumption          | 0.45  |           |            |           |
| Video output               | 1Vp-p , 75ohm composite                                   |           |            |           |
| LED                        | white LED x 6; IR940nm x 6; IR850nm x 6(order in advance) |           |            |           |
| Storage temperature        | -30 to 60 Degree C  |           |            |           |
| Working temperature        | -10 to 45 Degree C  |           |            |           |
| Power source               | Camera input: DC 3.3V                                     |           |            |           |
| Power current              | 130 mA(max)-DC 3.3V                                       |           |            |           |
| Dimension (mm)             | Ø4  |           | Ø4.5x27    |           |



MX-B1004



MX-L1004

**Ordering information**

| Lens Model     | EFL / Fno.     | FOV (with MX-B1004) | Thread    | Note     |
|----------------|----------------|---------------------|-----------|----------|
| 1M13320IR-M3.5 | 1.33mm / F2.0  | D= 65° 46'          | M3.5xP0.2 | Normal   |
| LP1532IR-M3.5  | 1.498mm / F3.2 | D= 59° 43'          | M3.5xP0.2 | Normal   |
| LP1550R-M3.5   | 1.498mm / F5.0 | D= 59° 43'          | M3.5xP0.2 | High DOF |
| LP1570R-M3.5   | 1.498mm / F7.0 | D= 59° 43'          | M3.5xP0.2 | High DOF |

| Model              | MX-T1004            | JX-T1004 | MXJ-T1004 | MXQ-T1004 | MX-F1004 | Note  |
|--------------------|---------------------|----------|-----------|-----------|----------|---|
| Image / Pin define |                     |          |           |           |          | G : GND<br>A : AUDIO<br>P : DC POWER<br>V : VIDEO |
| MX-I1004           | I: camera with TUBE |          |           |           |          |   |