

The technical drawing illustrates a camera module with the following dimensions and specifications:

- Front View:** Shows a lens with a diameter of  $\phi 17.5^{+0.0}_{-0.1}$  mm and a field of view (FOV) of  $100^\circ$ . The lens is mounted on a base with a total height of  $26 \pm 0.3$  mm. The lens itself is  $5$  mm thick. The base has a width of  $17$  mm and a height of  $11.6$  mm. The mounting holes have a diameter of  $2 \times \phi 0.8^{+0.0}_{-0.05}$  mm. The base has a thickness of  $0.8$  mm. The lens is mounted on a base with a total height of  $26 \pm 0.3$  mm. The lens itself is  $5$  mm thick. The base has a width of  $17$  mm and a height of  $11.6$  mm. The mounting holes have a diameter of  $2 \times \phi 0.8^{+0.0}_{-0.05}$  mm. The base has a thickness of  $0.8$  mm.
- Side View:** Shows the lens with a diameter of  $\phi 17.5^{+0.0}_{-0.1}$  mm and a field of view (FOV) of  $100^\circ$ . The lens is mounted on a base with a total height of  $26 \pm 0.3$  mm. The lens itself is  $5$  mm thick. The base has a width of  $17$  mm and a height of  $11.6$  mm. The mounting holes have a diameter of  $2 \times \phi 0.8^{+0.0}_{-0.05}$  mm. The base has a thickness of  $0.8$  mm. The lens is mounted on a base with a total height of  $26 \pm 0.3$  mm. The lens itself is  $5$  mm thick. The base has a width of  $17$  mm and a height of  $11.6$  mm. The mounting holes have a diameter of  $2 \times \phi 0.8^{+0.0}_{-0.05}$  mm. The base has a thickness of  $0.8$  mm.
- Top View:** Shows the lens with a diameter of  $\phi 17.5^{+0.0}_{-0.1}$  mm and a field of view (FOV) of  $100^\circ$ . The lens is mounted on a base with a total height of  $26 \pm 0.3$  mm. The lens itself is  $5$  mm thick. The base has a width of  $17$  mm and a height of  $11.6$  mm. The mounting holes have a diameter of  $2 \times \phi 0.8^{+0.0}_{-0.05}$  mm. The base has a thickness of  $0.8$  mm. The lens is mounted on a base with a total height of  $26 \pm 0.3$  mm. The lens itself is  $5$  mm thick. The base has a width of  $17$  mm and a height of  $11.6$  mm. The mounting holes have a diameter of  $2 \times \phi 0.8^{+0.0}_{-0.05}$  mm. The base has a thickness of  $0.8$  mm.

**Table 1: Main Specification**

Item	Value
Sensor	1/2.3"
Max image	$\phi 8.0$
F/#	$2.5 \pm 5\%$
EFL	$4.5 \pm 5\%$
FOV( $^\circ$ )	$100^\circ$
D	$78^\circ$
H	$59^\circ$
V	$59^\circ$
FFL (IR cut(t=0.3)in + Cover glass(t=0.5)in)	$6.75 \pm 0.2$
BFL (IR cut(t=0.3)in + Cover glass(t=0.5)in)	$7.79 \pm 0.2$
TTL	$25 \pm 0.2$
Optical Distortion	$< 50\%$
Structure	6G
Resolution	16M
CRA	$< 12.9^\circ$

**Table 2: SURFACE QUALITY**

Item	Value
Center	$60-40 \Delta$
Margin	$60-40 \Delta$

**Table 3: TOLERANCE**

Item	Value
LINEARITY TOLERANCES	$\pm 0.05$
ANGULAR TOLERANCES	$\text{ARE} \pm 30'$
DRAFT ANGLES	$\text{AREA} \pm 0.5^\circ/\text{SIDE}$

**Table 4: Revision History**

Version	Number	Change Description	Author	Date	Reviewer
1	1	Initial Release	刘文斌	2024-12-05	审核

**Table 5: Material and Drawing Information**

Material (环保)	Unit	Ratio
CV1223B-F04 镜头	mm	3:1

**Table 6: Drawing Information**

Item	Value
Design	刘文斌
Check	2024-12-05
Material	CV1223B-F04 SPEC
Version	V02