



NCM25-AA is a color camera module with built-in ISP.
It has 1920 horizontal and 1280 vertical pixels and fits 1/2.57" optical format.
It can be configured for various environments, including high dynamic range (HDR) and LED Flicker Mitigation (LFM).

1.Features

- MIPI CSI-2 Interface
- Built-in ISP
- LED flicker Mitigation (LFM)
- Wide-angle lens

2.Specification

● Image Sensor	1/2.57-inch CMOS color sensor
● Shutter Type	Rolling shutter
● Dimension	32 × 32 [mm] ※1
● Effective Pixels	1920(H) × 1280(V)
● Pixel Size	3.0μm(H) × 3.0μm(V)
● Output Interface	MIPI CSI-2 serial output (4 lane)
● Output Signal Format	YCbCr422
● Frame rate (Max.)	30fps
● Function	Auto Exposure Control, Auto White Balance, Auto Gain Control, HDR, Image Inversion (up/down, left/right), LED Flicker Mitigation, etc.
● Angle of View (Typ.)	(H)122°/(V) 80°/(D)149°
● Optical Filter	IRCF
● F Number	F2.4
● Connection Type	FPC
● Power Consumption (Typ.)	400 [mW]

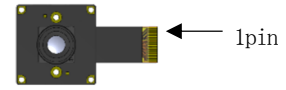
※1 : FPC part is not included

3. Recommended Operating Conditions

● Analog Power Supply (AVDD)	3.3 ± 0.165	[V]
● Digital Power supply (DVDD)	1.1 ± 0.1	[V]
● I/O Power supply (HVDD)	1.8 ± 0.1	[V]
● Operating Temperature	-30 ~ +80	[°C] ※2
● Storage Temperature	-40 ~ +85	[°C] ※2

※2 : No condensation

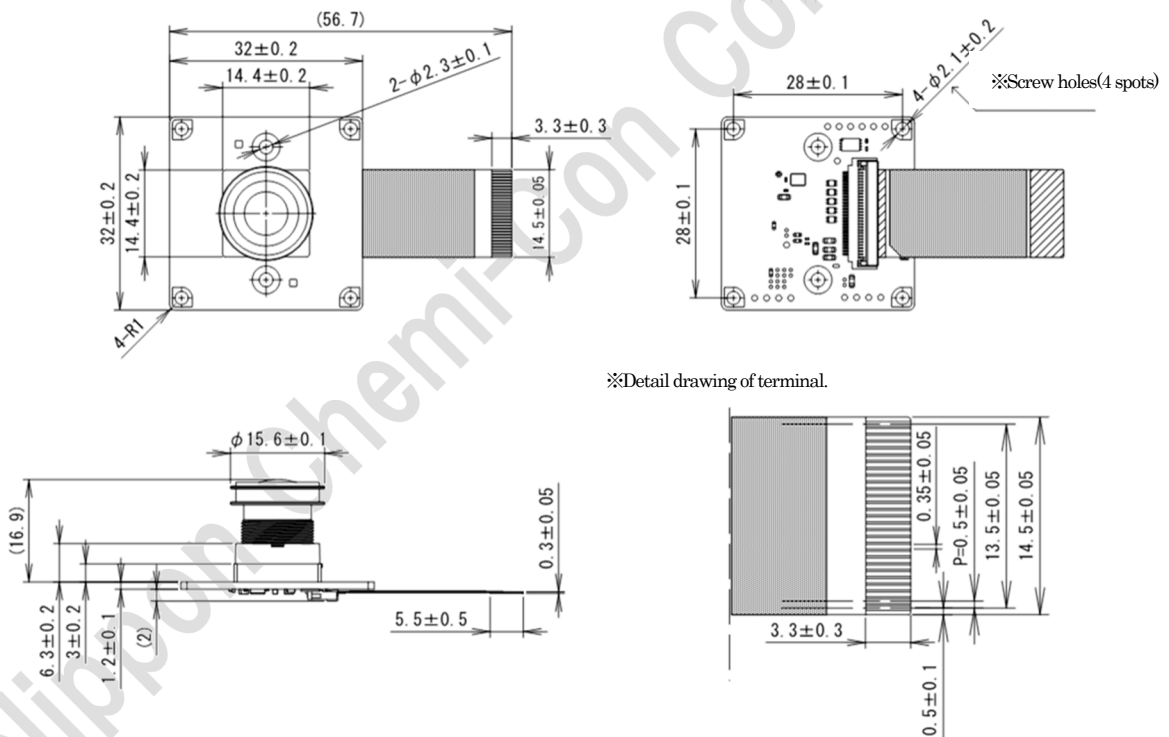
4. Terminal Description



No	Symbol	I/O	Terminal Description	No.	Symbol	I/O	Terminal Description
1	GND	-	Ground	15	M0P	O	Digital data output (Lane0_P)
2	GND	-	Ground	16	M0N	O	Digital data output (Lane0_N)
3	AVDD	I	Analog power supply	17	GND	-	Ground
4	HVDD	I	I/O power supply	18	MCP	O	Digital clock output (Clock_P)
5	DVDD	I	Digital power supply	19	MCN	O	Digital clock output (Clock_N)
6	DVDD	I	Digital power supply	20	GND	-	Ground
7	SDA	I/O	I2C serial data	21	M1P	O	Digital data output (Lane1_P)
8	SCL	I/O	I2C serial clock	22	M1N	O	Digital data output (Lane1_N)
9	GND	-	Ground	23	GND	-	Ground
10	RESET	I	System reset	24	M3P	O	Digital data output (Lane3_P)
11	GND	-	Ground	25	M3N	O	Digital data output (Lane3_N)
12	M2P	O	Digital data output (Lane2_P)	26	GND	-	Ground
13	M2N	O	Digital data output (Lane2_N)	27	FSYNC	I/O	Frame synchronous signal
14	GND	-	Ground	28	GND	-	Ground

5. External Dimensions

[Unit : mm]



6. Image Capture Polarity



The specifications in this document are subject to change without notice for improvement. This document does not grant any license to industrial property rights or any other rights related to the contents herein. Reproduction or reprinting of this material without written consent of the Company is strictly prohibited.