

# GLR1205BSI-S

512 pixels in 1 line, 12.5  $\mu\text{m}$  x 250  $\mu\text{m}$  RESOLUTION GLOBAL SHUTTER LINE SCAN CMOS IMAGE SENSOR



**GLR1205BSI-S** is a single-line linear image sensor with rectangular pixels and analog output designed for use in displacement sensors.

The sensor's 512 pixels are each 12.5  $\mu\text{m}$  (H) x 250  $\mu\text{m}$  (V) and provide a saturation output voltage of 2.45 V. The large pixel also increases the photosensitive area and facilitates easy alignment of the laser spot. Backside thinning technology enables a peak quantum efficiency of 95%, and almost 50% (650 nm). A charge transfer time of only 2.5  $\mu\text{s}$  ensures excellent lag performance. The single analog output allows image processing using an MCU module, and the small CSP package enables the design of a compact displacement sensor.

The **GLR1205BSI-S** image sensor is designed for the accurate detection of surfaces and precise distance measurement under a variety of lighting conditions.



## Key Features and Benefits

- ▶ BSI Linear Sensor
- ▶ High Sensitivity
- ▶ Large FWC
- ▶ Rectangular Pixel
- ▶ CSP Package

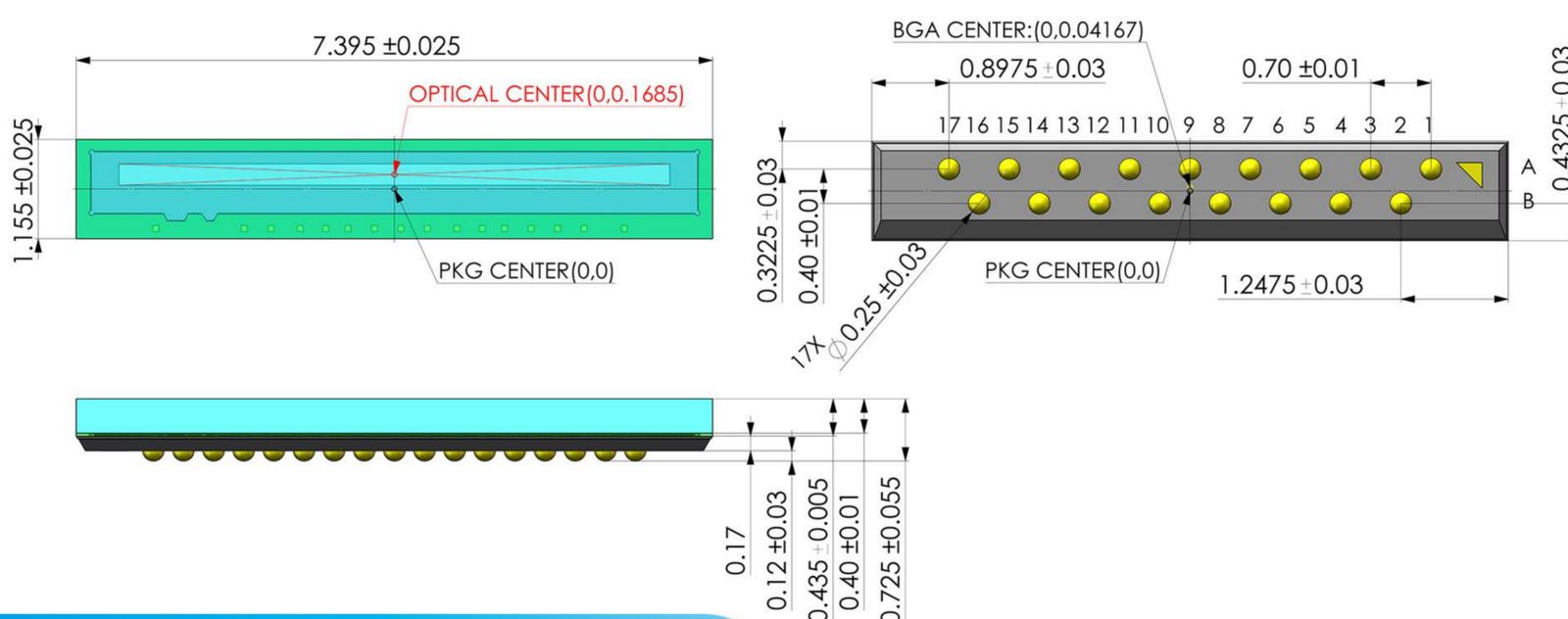
## Applications

- ▶ Automation & Inspection
- ▶ Logistic & Positioning

## Specifications

Nr of Active Pixels	512 (H) x 1 (V)	Optical Format	6.4 mm
Pixel Size	12.5 μm x 250 μm	Shutter Type	Global Shutter
Peak QE	95%	Temporal Noise	0.58 mV rms
Saturation output voltage	2.45 V	Dynamic Range	4224: 1
Max Line Rate	9.43 kHz	Dark Current	T.B.D
Output Format	Analog Output	Max. Data Rate	5 MHz
Chroma	Mono	Power Consumption	90 mW
Supply Voltage	3.3 V	Package	17 pins CSP (7.39 mm x 1.15 mm)

## Package Drawing



## Contact Gpixel

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GP-PR250801 V1.1