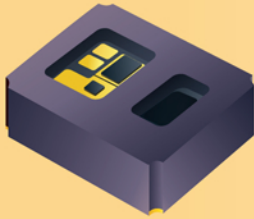


## 3-in-1 Light Sensor Ambient Light Sensor(ALS) + Proximity Sensor(PS) + IR Light source 2.5 x 2.0 x 1.0 mm PA22A Series

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### Features

- Ceramic Based 3-in-1 Light Sensor
- ALS Sensing Tolerance  $\pm 10\%$
- PS Crosstalk Cancelling 50% ADC counts
- Support 16-Bit Format Via I<sup>2</sup>C Interface
- 50/60Hz Noise Rejection Filter
- Power Saving Mode, Low Power Consumption
- Excellent PS performance for black hair in zero distance
- Applications : Smartphone, Phablet, Tablet, Digital Single Lens Reflex Camera, Smart Wearable Sport & Fitness.

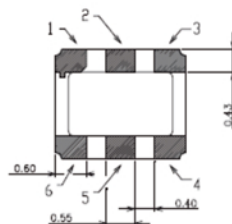
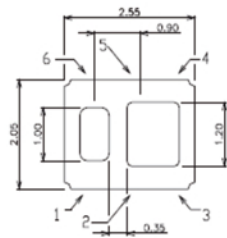
### Electrical Specifications

Item / Type	PA22A
Operating Temperature Range	-30~85°C
Storage Temperature Range	-40~85°C
Supply Voltage	2.7~3.3 V
Supply Current (ALS Only)	250 $\mu$ A Max.
Supply Current (PS Only)	650 $\mu$ A Max.
Shutdown Current	1 $\mu$ A Max.
I <sup>2</sup> C Clock Rate Range	1~400 kHz
Peak Wave Length for ALS	550nm
ADC Conversion Time	100ms
ALS_Dark	< 3 Steps
ALS_Full_Scale	65,535 Steps
ALS Tolerance*	$\pm 10\%$
IR-LED Peak Wave Length	940 nm(VCSEL)
IR-LED Driving Current	20, 50, 100, 150 mA
PS Detection Distance**	0~100 mm

\* Light Source : White LED (6500K)

\*\*Kodak 90% White Card

### Dimensions

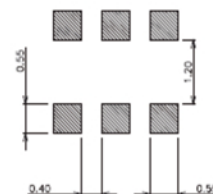


### Pin Function



Name	Function
Pin 1	VDD
Pin 2	SCL
Pin 3	GND
Pin 4	GND
Pin 5	NINT
Pin 6	SDA

### Land Pattern



Units: mm  
Tolerance:  $\pm 0.10$

单击下面可查看定价，库存，交付和生命周期等信息

[>>TXC\(台湾晶技\)](#)