4-in-1 Light Sensor
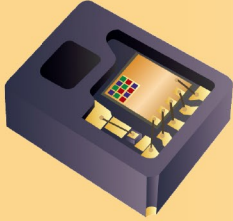
Color Sensor(CS) +
Ambient Light Sensor(ALS) +
Proximity Sensor(PS) + IR Light source
2.5 x 2.0 x 1.0 mm PA22 C Series

Sensor

Features

· Ceramic Based 4-in-1 Light Sensor
· Color Sensing Tolerance ±10%
· PS Crosstalk Cancelling 50% ADC counts
· Support 16-Bit Format Via I²C 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.
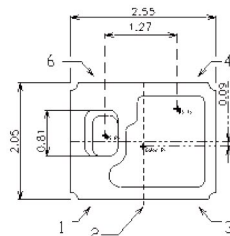
Electrical Specifications

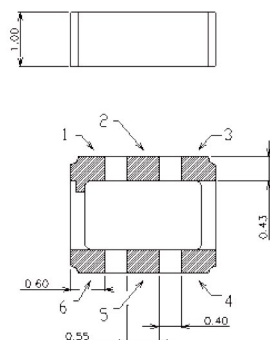| Item / Type	PA22C
Operating Temperature Range	-30~85℃
Storage Temperature Range	-40~85℃
Supply Voltage	2.7~3.3 V
Supply Current (ALS Only)	250 μA Max.
Supply Current (PS Only)	650 μA Max.
Shutdown Current	1 μA Max.
I²C Clock Rate Range	1~400 kHz
ADC Conversion Time	50ms or 100ms
RGB_Dark	< 3 Steps
RGB_Full_Scale	65,535 Steps
RGB Tolerance*	± 10 %
IR-Emitter Peak Wave Length	940 nm
IR-Emitter Driving Current	7, 10, 12.5, 15 mA
PS Detection Distance**	0~100 mm

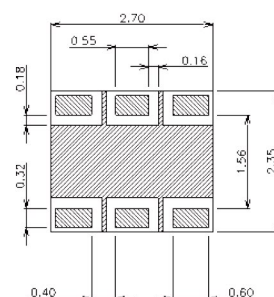* Light Source : White LED (6500K)
**Kodak 90% White Card

Dimensions

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

Land Pattern
Green area : solder mask

Units: mm
Tolerance:± 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)