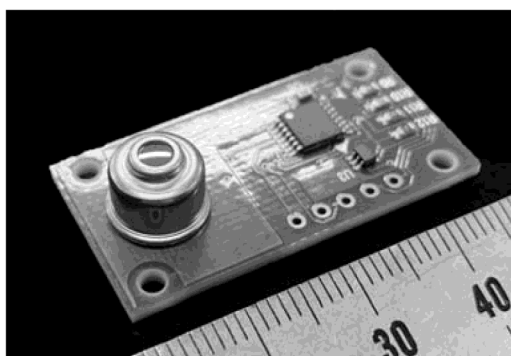


HUMAN BODY TEMPERATURE SENSOR

P/N: RDP-2784-S000



This sensor module is that detects temperature mainly based on body temperature with a non-contact thermopile sensor and outputs an ON / OFF signal. The built-in environmental temperature sensor has a function to perform temperature correction of the thermopile sensor.

FEATURES

- Interface: UART
- Non-contact type body temperature detection
- Built-in ambient temperature sensor
- Built-in temperature calibration
- Human detection threshold Automatic adjustment

MAXIMUM RATINGS

(Ta=25°C)

Item	Symbol	Rating	Unit
Supply voltage	Vdd	4.5 to 5.5	V
Operating temperature *1.	Topr.	(15 to 28)	°C
Storage temperature *1.	Tstg.	-20 to 85	°C

*1.

No icebound or dew

APPLICATIONS

- Human body detection

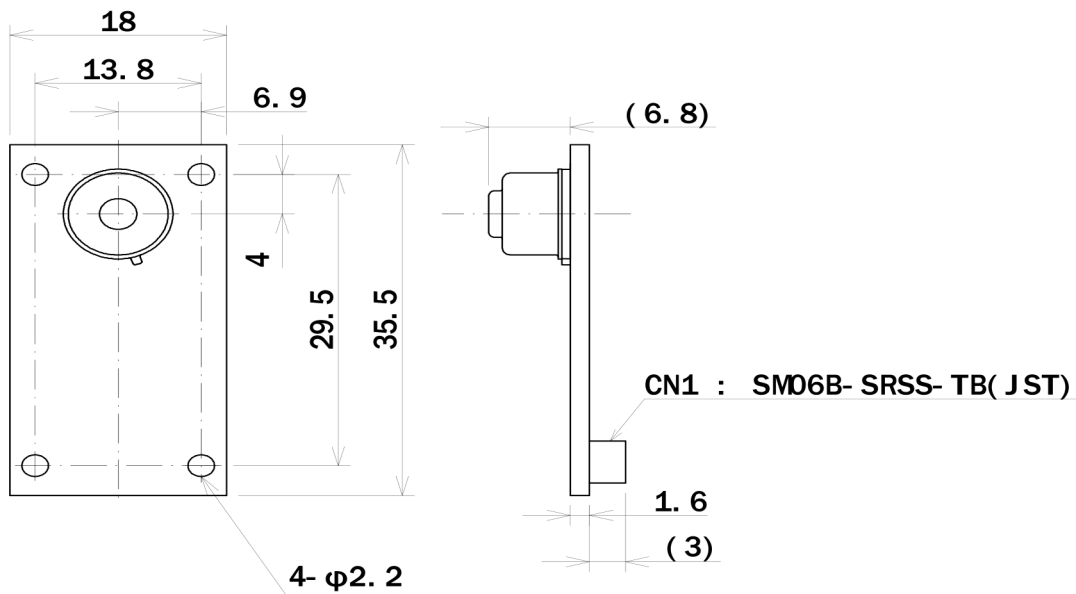
ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25°C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating voltage	Vdd	-	4.5	5.0	5.5	V
Consumption current	Idd	Vdd=5V	-	18	-	mA
Assumed object temperature	-	-	-	36	-	°C
Temperature accuracy	-	Vdd=5V、36°C	-	3500	-	mm
(50%) Viewing angle (50%)	FOV	L=50mm	-	2.0	-	°
Sensitivity Wavelength	λ	-	8	-	14	um



Dimension



CN1 PIN layou

No.	Symbol	Signal
1	RX	Serial data input
2	TX	Serial data output
3	SW	Switch input
4	GND	Reference potential
5	Vdd	Supply voltage
6	OUT	Detection signal output

