

Project Name: GH3011_Schematic
 Version: Rev.1.3
 Date: 2022/4/13

SpO2+HR Application

Item	Part Reference	Value	MFR. Part Number	MFR. Reference	PCB Footprint	Description	Qty	Note
1	C2, C3, C4	1 μ F	GRM033R60J105MEA2D	Murata	C0201	CAP, CER, 1 μ F, X5R, \pm 20%, 6.3 V	3	
2	C1	10 μ F	GRM188R61A106ME69D	Murata	C0603	CAP, CER, 10 μ F, X5R, \pm 20%, 10 V	1	
3	R1, R2	4.7k	RC0201JR-134K7L	Yageo	R0201	RES, Thick Film, 4.7 kohm, 5%	2	Optional. • IIC Communication: 4.7k • SPI Communication: NC
4	U1	GH3011	GH3011	Goodix	LGA19	Heart Rate Sensor	1	
5	LED1	SFH7015	SFH7015	OSRAM	SMT 7015	Multi-chip LED, with Red/Infrared Emitter	1	
6	LED2, LED3	CT DBLP31.12	CT DBLP31.12	OSRAM	SMT E2218	Green LED	2	

SpO2 Application

Item	Part Reference	Value	MFR. Part Number	MFR. Reference	PCB Footprint	Description	Qty	Note
1	C2, C3, C4	1 μ F	GRM033R60J105MEA2D	Murata	C0201	CAP, CER, 1 μ F, X5R, \pm 20%, 6.3 V	3	
2	C1	10 μ F	GRM188R61A106ME69D	Murata	C0603	CAP, CER, 10 μ F, X5R, \pm 20%, 10 V	1	
3	R1, R2	4.7k	RC0201JR-134K7L	Yageo	R0201	RES, Thick Film, 4.7 kohm, 5%	2	Optional. • IIC Communication: 4.7k • SPI Communication: NC
4	U1	GH3011	GH3011	Goodix	LGA19	Heart Rate Sensor	1	
5	LED4	SFH7015	SFH7015	OSRAM	SMT 7015	Multi-chip LED, with Red/Infrared Emitter	1	

HR Application

Item	Part Reference	Value	MFR. Part Number	MFR. Reference	PCB Footprint	Description	Qty	Note
1	C2, C3, C4	1 μ F	GRM033R60J105MEA2D	Murata	C0201	CAP, CER, 1 μ F, X5R, \pm 20%, 6.3 V	3	
2	C1	10 μ F	GRM188R61A106ME69D	Murata	C0603	CAP, CER, 10 μ F, X5R, \pm 20%, 10 V	1	
3	R1, R2	4.7k	RC0201JR-134K7L	Yageo	R0201	RES, Thick Film, 4.7 kohm, 5%	2	Optional. • IIC Communication: 4.7k • SPI Communication: NC
4	U1	GH3011	GH3011	Goodix	LGA19	Heart Rate Sensor	1	
5	LED1	LTE-C9901-GD	LTE-C9901-GD	Lite-On	SMT LTE-C9901-GD	Infrared LED	1	
6	LED2, LED3	CT DBLP31.12	CT DBLP31.12	OSRAM	SMT E2218	Green LED	2	

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