



Bill of Materials for the PIR-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	CAP CER 10000PF 16V X7R	10000PF 16V	±10%	0603	Würth Electronics	885012206040	Yes	Yes
C3,C5,C7,C9	4	CAP CER 0.1UF 16V X7R	0.1UF 16V	±10%	0603	Würth Electronics	885012206046	Yes	Yes
C4,C8	2	CAP CER 33UF 10V X6S	33UF 10V	±20%	1206	TDK Corporation	C3216X6S1A336M160AC	Yes	Yes
C6	1	CAP CER 10000PF 16V X7R	10000PF 16V	±10%	0402	Würth Electronics	885012205031	Yes	Yes
C11,C32	2	CAP CER 10UF 16V X5R	10UF 16V	±20%	0805	Würth Electronics	885012107014	Yes	Yes
D1	1	LED Indication - Discrete 2V	Green (570nm)	-	0603	Würth Electronics	150060VS75000	Yes	Yes
J3	1	PIR SENSOR	-	-	-	PIR SENSOR CO	D203S	Yes	Yes
J5,J6	2	3 Positions Gold Header, Unshrouded Connector	-	-	0.100" (2.54mm) Through Hole	Würth Electronics	61300311121	Yes	Yes
J14	1	12 Positions Gold Header, Unshrouded Connector	-	-	0.100" (2.54mm) Through Hole, Right Angle	Würth Electronics	61301221021	Yes	Yes
J20	1	2 Positions Gold Header, Unshrouded Connector	-	-	0.100" (2.54mm) Through Hole	Würth Electronics	61300211121	Yes	Yes
R1	1	RES SMD 174K OHM 1% 1/10W	174K OHM 1/10W	1%	0603	Yageo	RC0603FR-07174KL	Yes	Yes
R2	1	TRIMMER 500K OHM 0.25W	500K OHM 0.25W	±20%	0.177" x 0.177" Face x 0.100" H	Bourns Inc	3314J-1-504E	Yes	Yes
R3,R8,R17,R18,R20	5	RES SMD 10K OHM 1% 1/10W	10K OHM 1/10W	1%	0603	Vishay Dale	CRCW060310K0FKEA	Yes	Yes
R4	1	TRIMMER 1M OHM 0.25W	1M OHM 0.25W	±20%	0.177" x 0.177" Face x 0.100" H	Bourns Inc.	3314J-1-105E	Yes	Yes
R5	1	RES SMD 560K OHM 1% 1/10W	560K OHM 1/10W	1%	0603	Yageo	RC0603FR-07560KL	Yes	Yes
R6	1	RES SMD 560K OHM 1% 1/10W	560K OHM 1/10W	1%	0603	Yageo	RC0603FR-07560KL	Yes	Yes
R7	1	RES SMD 158 OHM 1% 1/10W	158 OHM 1/10W	1%	0603	Yageo	RC0603FR-07158RL	Yes	Yes
R9	1	RES SMD 43K OHM 1% 1/10W	43K OHM 1/10W	1%	0603	Yageo	RC0603FR-0743KL	Yes	Yes
R69	1	RES SMD 0.0OHM JUMPER 1/10W	Jumper	-	0603	Yageo	RC0603JR-070RL	Yes	Yes
RX, RY	2	RES SMD 0.0OHM JUMPER 1/10W	Jumper	-	0603	Yageo	RC0603JR-070RL	Yes	Yes
TP1	1	-	-	-	-	-	-	Yes	Yes
TP2,TP3	2	-	-	-	-	-	-	Yes	Yes
U1	1	IC PIR DETECTOR CTRL	-	-	14-SOIC	ON Semiconductor	NCS3600DG	No	Yes
U22	1	IC I/O EXPANDER I2C 16B	-	-	24-QFN	ON Semiconductor	PCA9655EMTTXG	No	Yes
NA	2	Multi-Jumper 2.54mm Jumper with Test Point WR-PHD	-	-	-	Würth Electronics	60900213421	Yes	Yes
NA	1	POSITION SENSORS Fresnell lens	-	-	-	Murata Electronics	PPGI0601	Yes	Yes