



Bill of Materials for the D_STPR-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C2,C18	2	CAP CER 10UF 16V X5R	10µF 16V	±20%	0805	Würth Electronics	885012107014	Yes	Yes
C4,C10	2	CAP CER 0.22UF 10V X7R	0.22µF 10V	±10%	0603	Würth Electronics	885012206022	Yes	Yes
C5,C11,C19,C20	4	CAP CER 0.22UF 25V X7R	0.22µF 25V	±10%	0603	Würth Electronics	885012206073	Yes	Yes
C6,C7,C12,C13	4	CAP CER 0.1UF 50V X7R	0.10µF 50V	±10%	0603	Würth Electronics	885012206095	Yes	Yes
C15,C23	2	CAP CER 10UF 50V X7R	10µF 50V	±20%	1210	Taiyo Yuden	UMK325AB7106MM-T	Yes	Yes
C16,C17	2	CAP ALUM 100UF 20% 50V	100µF 50V	±20%	0.394"	Würth Electronics	865230657013	Yes	Yes
C21,C22	2	CAP CER 0.22UF 25V X7R	0.22µF 25V	±10%	0603	Würth Electronics	885012206073	Yes	Yes
D8,D9	2	DIODE SCHOTTKY 60V 3A	-	-	SMB	ON Semiconductor	MBR3360BT3G	No	Yes
J1,J6	2	STACKING HEADER ARDUINO SHIELD	-	-	-	Samtec	ESW-108-14-G-S	Yes	Yes
J2	1	STACKING HEADER ARDUINO SHIELD	-	-	-	Samtec	ESW-110-14-G-S	Yes	Yes
J5	1	STACKING HEADER ARDUINO SHIELD	-	-	-	Samtec	ESW-106-14-G-S	Yes	Yes
J8,J9	2	6 Position Right Angle Through Hole Terminal Block Header, Male Pins	-	-	Shrouded (4 Side) 0.098" (2.50mm)	Würth Electronics	691382010006	Yes	Yes
J10	1	2 Position Right Angle Through Hole Terminal Block Header, Male Pins	-	-	Shrouded (4 Side) 0.150" (3.81mm)	Würth Electronics	691322310002	Yes	Yes
J20,J21	2	2 Positions Gold Through-Hole Header, Unshrouded Connector	-	-	0.100" (2.54mm)	Würth Electronics	61300211121	Yes	Yes
Q1	1	TRANS NPN 40V 0.6A	-	-	SOT23	ON Semiconductor	MMBT2222ALT1G	No	Yes
R1,R4,R5,R6,R9,R10,R11,R75,R76	9	RES SMD 4.7K OHM 1% 1/10W	4.7K OHM 1/10W	1%	0603	Yageo	RC0603FR-074K7L	Yes	Yes
R14,R15,R16,R17	4	RES SMD 10K OHM 1% 1/10W	10K OHM 1/10W	1%	0603	Vishay Dale	CRCW060310K0FKEA	Yes	Yes
R18,R20,R22,R24,R77,R78	6	RES SMD 0.0OHM JUMPER 1/10W	Jumper	-	0603	Yageo	RC0603JR-070RL	Yes	Yes
R19,R21,R23,R25	4	RES SMD 0.0OHM JUMPER 1/10W	Jumper	-	0603	Yageo	RC0603JR-070RL	Yes	Yes
R70,R71	2	RES SMD 5.6K OHM 5% 1/10W	5.6K OHM 1/10W	5%	0603	Yageo	RC0603JR-075K6L	Yes	Yes
R72	1	RES SMD 10K OHM 1% 1/10W	10K OHM 1/10W	1%	0603	Vishay Dale	CRCW060310K0FKEA	Yes	Yes
R73,R74	2	RES SMD 100 OHM 1% 1/10W	100 OHM 1/10W	1%	0603	Yageo	RC0603FR-07100RL	Yes	Yes
SW3	1	Tactile Switch SPST-NO Top Actuated Surface Mount	-	-	6.20mm x 6.20mm	Würth Electronics	430182043816	Yes	Yes
TP3,TP4,TP5,TP6,TP7,TP8,TP9	7	-	-	-	-	-	-	Yes	Yes
U1,U2	2	Stepper Motor	-	-	32-QFN	ON Semiconductor	AMIS30543C5431RG	No	Yes
U22	1	IC I/O EXPANDER I2C 16B	-	-	QFN-24	ON Semiconductor	PCA9655EMTTXG	No	Yes
J8_Female,J9_Female	2	6 Position 180° Free Hanging (In-Line) Terminal Block Plug, Female Sockets	-	-	0.098" (2.50mm)	Würth Electronics	691381000006	Yes	Yes
J10_Female	1	2 Position 180° Free Hanging (In-Line) Terminal Block Plug, Female Sockets	-	-	0.150" (3.81mm)	Würth Electronics	691361300002	Yes	Yes