

# Bill of Materials

TI DESIGNS  
Gauge Booster Pack  
TIDA-00586

Designator	Description	Manufacturer	PartNumber	Quantity
IPC B1	Printed Circuit Board	Any	TIDA-00586	1
C1	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0402	MuRata	GRM155R61A105KE15D	1
C2	CAP, CERM, 0.47uF, 6.3V, +/-10%, X5R, 0402	MuRata	GRM155R60J474KE19D	1
C3	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	Kemet	C0603C104K3RACTU	1
C4	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	Kemet	C0603C104K3RACTU	1
C5	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	Kemet	C0603C104K3RACTU	1
D1	Diode, TVS, Uni, 6.8V, 1500W, SMC	Littelfuse	1.5SMC6.8A	1
D2	Diode, TVS, Uni, 6.8V, 1500W, SMC	Littelfuse	1.5SMC6.8A	1
F1	Fuse, Resettable, 1.9A, 6V, SMD	TE Connectivity	RF1824-000	1
F2	Fuse, Resettable, 1.9A, 6V, SMD	TE Connectivity	RF1824-000	1
FID1	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	1
FID2	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	1
FID3	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	1
J1	Header, 3x1 3.5mm, TH	On-Shore Technology	OSTOQ031251	1
J2	Terminal Block, 6A, 3.5mm Pitch, 3-Pos, TH	On-Shore Technology	ED555/3DS	1
J4	Connector, Receptacle, 100mil, 10x1, Gold plated, TH	Samtec	SSW-110-24-F-S	1
J5	Connector, Receptacle, 100mil, 10x1, Gold plated, TH	Samtec	SSW-110-24-F-S	1
J6	Header, 12x1, 100mil, R/A, TH	Sullins Connector Solutions	PPPC121LGBN-RC	1
LBL1	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	Brady	THT-14-423-10	1
Q1	MOSFET, P-CH, -20V, -22.1A, PowerPAK 1212	Vishay-Siliconix	SI7615ADN-T1-GE3	1
Q2	MOSFET, P-CH, -20V, -22.1A, PowerPAK 1212	Vishay-Siliconix	SI7615ADN-T1-GE3	1
Q3	MOSFET, N-CH, 60V, 0.17A, SOT-23	Diodes Inc.	2N7002-7-F	1
Q4	MOSFET, P-CH, -20V, -22.1A, PowerPAK 1212	Vishay-Siliconix	SI7615ADN-T1-GE3	1
Q5	MOSFET, P-CH, -20V, -22.1A, PowerPAK 1212	Vishay-Siliconix	SI7615ADN-T1-GE3	1
Q6	MOSFET, N-CH, 60V, 0.17A, SOT-23	Diodes Inc.	2N7002-7-F	1
Q7	MOSFET, P-CH, -20V, -22.1A, PowerPAK 1212	Vishay-Siliconix	SI7615ADN-T1-GE3	1
Q8	MOSFET, P-CH, -20V, -22.1A, PowerPAK 1212	Vishay-Siliconix	SI7615ADN-T1-GE3	1
Q9	MOSFET, N-CH, 60V, 0.17A, SOT-23	Diodes Inc.	2N7002-7-F	1
Q10	MOSFET, P-CH, -20V, -22.1A, PowerPAK 1212	Vishay-Siliconix	SI7615ADN-T1-GE3	1
Q11	MOSFET, P-CH, -20V, -22.1A, PowerPAK 1212	Vishay-Siliconix	SI7615ADN-T1-GE3	1
Q12	MOSFET, N-CH, 60V, 0.17A, SOT-23	Diodes Inc.	2N7002-7-F	1
R1	RES, 0 ohm, 5%, 0.25W, 1206	Vishay-Dale	CRCW12060000Z0EA	1
R2	RES, 2.00Meg ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06032M00FKEA	1
R3	RES, 2.00Meg ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06032M00FKEA	1
R4	RES, 100k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603100KFKEA	1
R5	RES, 0.1 ohm, 1%, 1W, 2010	Stackpole Electronics Inc	CSRN2010FKR100	1
R6	RES, 2.00Meg ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06032M00FKEA	1
R7	RES, 1.00k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031K00FKEA	1
R8	RES, 1.00k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031K00FKEA	1
R9	RES, 2.00Meg ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06032M00FKEA	1
R10	RES, 0.2 ohm, 1%, 1W, 2010	Stackpole Electronics Inc	CSRN2010FKR200	1
R11	RES, 2.00Meg ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06032M00FKEA	1
R12	RES, 2.00Meg ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06032M00FKEA	1
R13	RES, 0.4 ohm, 1%, 1W, 2010	Stackpole Electronics Inc	CSRN2010FKR400	1
R14	RES, 2.00Meg ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06032M00FKEA	1
R15	RES, 2.00Meg ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06032M00FKEA	1
R16	RES, 10.0k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060310K0FKEA	1
R17	RES, 1.00Meg ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031M00FKEA	1
R18	RES, 2.00Meg ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06032M00FKEA	1
R19	RES, 2.00Meg ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06032M00FKEA	1
S1	Switch, Toggle, SPDT 1Pos, TH	NKK Switches	G12AP	1
TP1	Test Point, Miniature, Red, TH	Keystone	5000	1
TP2	Test Point, Miniature, Red, TH	Keystone	5000	1
TP3	Test Point, Miniature, Red, TH	Keystone	5000	1
TP4	Test Point, Miniature, Black, TH	Keystone	5001	1
TP5	Test Point, Miniature, Black, TH	Keystone	5001	1
TP6	Test Point, Miniature, Red, TH	Keystone	5000	1
TP7	Test Point, Miniature, White, TH	Keystone	5002	1
TP8	Test Point, Miniature, White, TH	Keystone	5002	1
TP9	Test Point, Miniature, White, TH	Keystone	5002	1
TP10	Test Point, Miniature, White, TH	Keystone	5002	1
TP11	Test Point, Miniature, Red, TH	Keystone	5000	1
U1	System-Side Impedance Track Fuel Gauge With Integrated Sense Resistor, YZF0009AKAL	Texas Instruments	BQ27421YZFR-G1A	1
U2	0.45 ohm QUAD SPDT ANALOG SWITCH QUAD-CHANNEL 2:1 MULTIPLEXER/DEMULTIPLEXER WITH TWO CONTROLS, PW0016A	Texas Instruments	TS3A44159PWR	1
U3	0.45 ohm QUAD SPDT ANALOG SWITCH QUAD-CHANNEL 2:1 MULTIPLEXER/DEMULTIPLEXER WITH TWO CONTROLS, PW0016A	Texas Instruments	TS3A44159PWR	1
U4	0.45 ohm QUAD SPDT ANALOG SWITCH QUAD-CHANNEL 2:1 MULTIPLEXER/DEMULTIPLEXER WITH TWO CONTROLS, PW0016A	Texas Instruments	TS3A44159PWR	1
ZZ2	This is the mating Plug for Connector J1	On-Shore Technology	OSTTJ0311530	1

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