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Variant: None

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Generic Energy Harvester Adapter Module for Marlow PowerStrap

Designator	Description	Manufacturer	PartNumber	Quantity
!PCB1	Printed Circuit Board	Any	TIDA-00246	1
BT1	Battery, 3.95 V, Axial, TH	Tadiran Batteries	HLC-1550A/TP	1
C1	CAP, CERM, 0.15 pF, 200 V, +/- %, X7R, 0402	Knowles Accoustics	C04ULR15D-6SN-X0T	1
C2	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	MuRata	GRM188R71H103KA01D	1
C3	CAP, CERM, 22uF, 6.3V, +/-20%, X5R, 0805	Taiyo Yuden	JMK212BJ226MG-T	1
C4	CAP, CERM, 0.1uF, 25V, +/-10%, X5R, 0603	AVX	06033D104KAT2A	1
C5, C7	CAP, CERM, 4.7uF, 10V, +/-10%, X7R, 0805	Taiyo Yuden	LMK212B7475KG-T	2
C6	CAP, CERM, 10 uF, 16 V, +/- 10%, X5R, 1210	AVX	1210YD106KAT2A	1
C27	CAP, CERM, 0.1uF, 10V, +/-10%, X7R, 0402	MuRata	GRM155R71A104KA01D	1
FID1, FID2, FID3, VT1	Fiducial mark. There is nothing to buy or mount., Fiducial mark. There is nothing to buy or mount., Fiducial mark. There is nothing to buy or mount., TEG	N/A	N/A	4
J1, J14, J15, J17	Header, 2.54 mm, 2x1, Gold, TH	Würth Elektronik eiSos	61300211121	4
J2, J3	Connector, Receptacle, 100mil, 10x2, Gold plated, TH	Samtec	SSW-110-23-F-D	2
J4, J5, J6, J7, J8, J9, J10, J11, J12, J13, J16	Header, 2.54 mm, 3x1, Gold, TH	Würth Elektronik eiSos	61300311121	11
L1	Inductor, Shielded Drum Core, Ferrite, 22 uH, 0.36 A, 0.41 ohm, SMD	Würth Elektronik eiSos	744031220	1
L2	Inductor, Shielded Drum Core, Ferrite, 10 uH, 0.5 A, 0.39 ohm, SMD	Würth Elektronik eiSos	744029100	1
Q1, Q2	MOSFET, N/P-CH, 30 V, 1.5 A, 1.0x0.35x0.6mm	Texas Instruments	CSD17483F4T	2
Q3	MOSFET, N-CH, 12 V, 14.4 A, SON 2x2mm	Texas Instruments	CSD13202Q2	1
R1, R13	RES, 0, 5%, 0.125 W, 0805	Vishay-Dale	CRCW08050000Z0EA	2
R3, R10, R25	RES, 10.0 M, 1%, 0.25 W, 1206	Vishay-Dale	CRCW120610M0FKEA	3
R4, R14	RES, 6.81 M, 1%, 0.25 W, 1206	Vishay-Dale	CRCW12066M81FKEA	2
R5, R16	RES, 4.53 M, 1%, 0.25 W, 1206	Vishay-Dale	CRCW12064M53FKEA	2
R6	RES, 510k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603510KJNEA	1
R7, R8	RES, 6.49Meg ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06036M49FKEA	2
R9	RES, 5.23 M, 1%, 0.125 W, 0805	Vishay-Dale	CRCW08055M23FKEA	1
R11	RES, 6.34Meg ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06036M34FKEA	1
R12	RES, 6.04Meg ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06036M04FKEA	1
R18	RES, 7.87 M, 1%, 0.25 W, 1206	Vishay-Dale	CRCW12067M87FKEA	1
R20, R21	RES, 1.5k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04021K50JNED	2
SH-J1, SH-J2, SH-J3, SH-J4, SH-J5, SH-J6, SH-J7, SH-J8, SH-J9, SH-J10, SH-J11	Shunt, 100mil, Gold plated, Black	3M	969102-0000-DA	11
U1	Ultra Low Power Harvester Power Management IC with Boost Charger, and Nano-Powered Buck Converter, RGR0020A	Texas Instruments	BQ25570RGRR	1
U2	0.9-V to 6.5-V, Nanopower Comparator, DCK0005A	Texas Instruments	TLV3691IDCK	1
U3	Nano Power Programmable Timer, DGS0010A	Texas Instruments	TPL5100DGS	1
U5	Remote 16-Bit I2C and SMBus, Low-Power I/O Expander with Interrupt Output and Config Register, 1.65 to 5.5 V, -40 to 85 degC, 24-pin QFN (RTW), Green (RoHS & no Sb/Br)	Texas Instruments	TCA9535RTWR	1

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