

Copyright RESTEP 2021. [www.restep.eco](http://www.restep.eco)

This source describes Open Hardware and is licensed under the CERN-OHL-S v2. You may redistribute and modify this source and make products using it under the terms of the CERN-OHL-S v2 (<https://ohwr.org/cern-ohl-s-v2.txt>). This source is distributed WITHOUT ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING OF MERCHANTABILITY, SATISFACTORY QUALITY AND FITNESS FOR A PARTICULAR PURPOSE. Please see the CERN-OHL-S v2 for applicable conditions.

Source location: <https://github.com/restep-eco/Restep>

As per CERN-OHL-S v2 section 4, should You produce hardware based on this source, You must where practicable maintain the Source Location visible on the external case of the Off-Line Module or other products you make using this source.

This document is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.



Ref. Des.	Manufacturer	Manufacturer Part Number	Description	Quantity
C4, C9, C13, C14, C17, C18, C19, C20, C21, C22, C23	Kemet	C0603C104K5RACAUTO	CAP CER 0.1UF 50V X7R 0603	11
N/A	McMasterCarr	8859K481	Ultra-Formable 260 Brass, 1 Foot Long Rod, 1/32" Diameter	10
R8, R9, R10, R11, R12, R17, R19	Vishay	CRCW06030000ZSTA	RES SMD 0 OHM JUMPER 1/10W 0603	7
R3, R4, R6, R13, R14, R15	Stackpole	RNCP0603FTD10R0	RES 10 OHM 1% 1/8W 0603	6
N/A	McMasterCarr	8965K36	Super-Conductive 101 Copper Rod, 5/32" Diameter	3
R22, R24, R25	Vishay	CRCW0805182RFKEA	RES SMD 182 OHM 1% 1/8W 0805	3
J1, J3, J4	Amphenol	T70243500000G	TERM BLK 2P SIDE ENT 7.62MM PCB	3
R21, R23	Vishay	CRCW0805215RFKEA	RES SMD 215 OHM 1% 1/8W 0805	2
R18, R20	Vishay	CRCW0805174RFKEA	RES SMD 174 OHM 1% 1/8W 0805	2
N/A	McMasterCarr	93580A115	Press-Fit Studs, 18-8 Stainless Steel, 4-40 Thread, 3/8" Long, PEM® Fhs440-6	2

# RESTEP OFF-LINE MODULE BILL OF MATERIALS

6/4/2021

N/A	McMasterCarr	91075A234	Male-Female Threaded Hex Standoff, 18-8 Stainless Steel, 3/16" Hex, 5/8" Long, 4-40 to 4-40 Thread	2
N/A	McMasterCarr	96278A005	18-8 Stainless Steel Locknut with External-Tooth Lock Washer, 4-40 Thread Size	2
J2-1	NorComp	680M13W3103L401	CONN D-SUB PLUG 13POS PNL MNT	1
D2	CREE	CLX6F-FKC-CNP1ST1E1BB7D3D3	LED RGB 6PLCC SMD	1
R2	Bourns	CRE2512-FZ-R004E-2	RES 0.004 OHM 1% 2W 2512	1
U1	Texas Instruments	INA230AIRGTR	IC CURRENT SHUNT MONITOR 16QFN	1
U2	Microchip	TCN75AVOA713	SENSOR DIGITAL -40C-125C 8SOIC	1
U4	Panasonic	AQH3213A	SSR RELAY SPST-NO 1.2A 0-600V	1
D1	Diodes Inc.	SBR10B45P5-7	DIODE SBR 45V 10A POWERDI5	1
U3	Texas Instruments	SN74LV8153PWR	IC SERIAL-PARALLEL INTRF 20TSSOP	1
C5	Kemet	C1206C475K5PACTU	CAP CER 4.7UF 50V X5R 1206	1
J2-2	NorComp	680M13W3203L401	CONN D-SUB RCPT 13POS PNL MNT	1
N/A	Leader Tech	TGF10-07870787-020	THERM PAD 199.9MMX199.9MM GRAY	1
C1, C2, C3, C6, C7, C8, C11, C12, C15, C16, R1, R5, R7, R16, U2, U4	DNP	DNP		16