


Bill of Material (BOM)						RDHP-1521				
Product name:		RDHP-1521								
PCB Number:		RDHP-1521-3								
Version:		v3-1								
Creation Date:		17.02.2016								
<div></div>										
Value	Designator	Part Description	Package	Parameters	Temperature Range	Quantity	Mounting	Second Source	Manufacturer 1	Type Designation 1
N.A.	BR1	Power Resistor	Axial-0.4	1%/0.25W/200V	-55 to +155°C	1	THT	Y		
22p	C100, C200	Ceramic Chip Capacitor	0603	NP0,C0G/50V/1%	-55 to +125°C	2	SMT	Y		
4u7	C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C201, C202, C203, C204, C205, C206, C207, C208, C209, C210, C211, C212, C300, C301, C306	Ceramic Chip Capacitor	1206	X7R/25V/10%	-55 to +125°C	27	SMT	Y		
N.A.	C113, C213	Ceramic Chip Capacitor	0603	NP0,C0G/25V/5%	-55 to +125°C	2	SMT	Y		
4u7	C114, C214	Ceramic Chip Capacitor	1206	X7R/50V/10%	-55 to +125°C	2	SMT	Y		
100n	C302, C305	Ceramic Chip Capacitor	0603	NP0,C0G/25V/10%	-55 to +125°C	2	SMT	Y		
N.A.	C303, C304	Ceramic Chip Capacitor	0603	NP0,C0G/50V/1%	-55 to +125°C	2	SMT	Y		
BAS416	D100, D200	Low Leakage Diode	SOD323	75V/200mA/250mW	-65 to +150°C	2	SMT	N	NXP	BAS416
N.A.	D101, D102, D103, D104, D105, D106, D201, D202, D203, D204, D205, D206	Transient Voltage Suppressor	SMB			12	SMT			
PMEG4010CEJ	D107, D207	Schottky Diode	SOD323F	40V/1A/350mW	-65 to +150°C	2	SMT	N	NXP	PMEG4010CEJ
STPS340U	D108, D109, D208, D209	Schottky Diode	SMB	40V/3A	-65 to +150°C	4	SMT	N	STMicroelectronics	STPS340U
BAV99	D110, D111, D210, D211, D301, D302, D303, D304	Dual High Speed Diode 70V, Connected in Series	SOT23	70V/200mA/250mW	-65 to +150°C	8	SMT	Y		
BZX384-C5V1	D300	Zener Diode	SOD323	5.1V/250mA/300mW/5%	-65 to +150°C	1	SMT	N	NXP	BZX384-C5V1
74LVC2G17	IC300	Dual non-inverting Schmitt trigger	SOT457	1.6V to 5.5V/50mA	-40 to +125°C (Ta)	1	SMT	N	NXP	74LVC2G17GV
NC7WZ14	IC301	UHS Inverter Schmitt Trigger	SC70-6	1.65V to 5.5V/100mA	-40 to +85°C (Ta)	1	SMT	Y		
NX7002BK	Q100, Q200, Q300	N-Channel Trench MOSFET	SOT23	60V/310mW/2.8 Ohm	-55 to +150°C	3	SMT	N	NXP	NX7002BK
N.A.	R100, R200	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT	Y		
N.A.	R101, R102, R103, R104, R105, R106, R107, R108, R109, R115a, R115b, R115c, R115d, R116a, R116b, R116c, R116d, R201, R202, R203, R204, R205, R206, R207, R208, R209, R215a, R215b, R215c, R215d, R216a, R216b, R216c, R216d	Thick Film Chip Resistor	1206	1%/0.25W/200V	-55 to +155°C	34	SMT	Y		
20R	R110, R210	Thick Film Chip Resistor	1206	1%/0.25W/200V/CRCWe3	-55 to +155°C	2	SMT	N	Vishay	CRCW120620R0FKE
6k8	R112, R212	Thick Film Chip Resistor	1206	1%/0.25W/200V	-55 to +155°C	2	SMT	Y		
N.A.	R113, R114, R213, R214	Power Metal Film Resistor	Axial-0.6	5%/2W/500V/PR02	-55 to +155°C	4	THT	N	Vishay	
4k7	R117, R217, R307	Thick Film Chip Resistor	1206	1%/0.25W/200V	-55 to +155°C	3	SMT	Y		
10k	R118, R218	Thick Film Chip Resistor	1206	1%/0.25W/200V	-55 to +155°C	2	SMT	Y		
33R	R119, R219	Thick Film Chip Resistor	1206	1%/0.25W/200V	-55 to +155°C	2	SMT	Y		
2k	R300a, R300b	Thick Film Chip Resistor	1206	1%/0.25W/200V	-55 to +155°C	2	SMT	Y		
3k3	R301, R304	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT	Y		
1k2	R302, R305	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT	Y		
10k	R303, R306	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT	Y		
10R	R308	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	1	SMT	Y		
4k7	R309, R310	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT	Y		
6k8	R311	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	1	SMT	Y		
150k	R312	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	1	SMT	Y		
6Pin	X1, X2	ConWTB_2.54mm_Wire to Board	1x6Pin, Pitch 2.54	250V/3A/6Pin/2.54mm	-40 to +105°C	2	THT	Y	Würth Elektronik	619 006 111 21
20Pin DIN41651-180°	X3	Eject Latch Header	2x10Pin, Pitch 2.54	1000V/1.75A/20Pin/2.54mm/180°	-55 to +105°C	1	THT	N	FCI	71918-120LF
2SC0115T2	X4	Gate Driver Core	2SC0115T2			1	THT	N	Power Integrations	2SC0115T
4Pin	X5, X6	ConWTB_2.54mm_Wire to Board	1x4Pin, Pitch 2.54	250V/3A/4Pin/2.54mm	-40 to +105°C	2	THT	Y	Würth Elektronik	619 004 111 21
RDHP-1521-3	Z1	Printed Circuit Board	N			1	N	N		

- Legend:**
- Mounting: "N" means that the corresponding entry is not a component that must be assembled onto the PCB (accessories, ...).
 - Second Source: "N" means that only the listed components from Manufacturer 1/Type Designation 1 to Manufacturer 3/Type Designation 3 can be used.
"Y" means that all components with a generic release that fulfill the given requirements (value, package, parameters and temperature range) can be used.
 - Not assembled components are not listed in this BOM.
 - The values listed in the "Temperature Range" column refer to the component temperature (junction, film, ...) unless otherwise specified. If "(Ta)" is indicated, the given values refer to the ambient temperature