


Bill of Material (BOM)						RDHP-1415			
Product name:		RDHP-1415							
PCB Number:		RDHP-1415-2							
Version:		v2-1							
Creation Date:		02.03.2016							
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Value	Designator	Part Description	Package	Parameters	Temperature Range	Quantity	Mounting	Manufacturer 1	Type Designation 1
N.A.	BR1	Power Resistor	Axial-0.4	1%/0.25W/200V	-55 to +155°C	1	THT		
22p	C100, C200	Ceramic Chip Capacitor	0603	NP0,C0G/50V/5%	-55 to +125°C	2	SMT		
N.A.	C300, C301	Ceramic Chip Capacitor	0603	NP0,C0G/50V/1%	-55 to +125°C	2	SMT		
4u7	C302, C305, C306	Ceramic Chip Capacitor	1206	X7R/25V/10%	-55 to +125°C	3	SMT		
100n	C303, C304	Ceramic Chip Capacitor	0603	NP0,C0G/25V/10%	-55 to +125°C	2	SMT		
22n	C307	Ceramic Chip Capacitor	0603	X7R/25V/10%	-55 to +125°C	1	SMT		
BAS416	D100, D200	Low Leakage Diode	SOD323	75V/200mA/250mW	-65 to +150°C	2	SMT	NXP	BAS416
13V	D101, D201	Transient Voltage Suppressor	SMB	600W/5%	-55 to +150°C	2	SMT	VISHAY	SMBJ13CA-E3
STPS340U	D102, D202	Schottky Diode	SMB	40V/3A	-65 to +150°C	2	SMT	STMicroelectronics	STPS340U
N.A.	D103, D104, D105, D106, D107, D108, D203, D204, D205, D206, D207, D208	Transient Voltage Suppressor	SMB			12	SMT		
BAV99	D300, D301, D303, D304, D305, D306	Dual High Speed Diode 70V, Connected in Series	SOT23	70V/200mA/250mW	-65 to +150°C	6	SMT		
BZX384-C5V1	D302	Zener Diode	SOD323	5.1V/250mA/300mW/5%	-65 to +150°C	1	SMT	NXP	BZX384-C5V1
74LVC2G17	IC300	Dual non-inverting Schmitt trigger	SOT457	1.6V to 5.5V/50mA	-40 to +125°C (Ta)	1	SMT	NXP	74LVC2G17GV
NC7WZ14	IC301	UHS Inverter Schmitt Trigger	SC70-6	1.65V to 5.5V/100mA	-40 to +85°C (Ta)	1	SMT		
2N7002	Q300, Q301	N-Channel vertical D-MOS Transistor	SOT23	60V/300mA/830mW/2.8 Ohm	-65 to +150°C	2	SMT	NXP	2N7002
BCR135	Q302	NPN Bipolar Transistor	SOT23	NPN/50V/100mA/200mW	-65 to +150°C	1	SMT	Infineon	BCR135
68k	R100, R200	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
N.A.	R101, R201, R314	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	3	SMT		
N.A.	R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R202, R203, R204, R205, R206, R207, R208, R209, R210, R211, R212, R213	Thick Film Chip Resistor	1206	1%/0.25W/200V	-55 to +155°C	24	SMT		
22k	R114, R214	Thick Film Chip Resistor	1206	1%/0.25W/200V/CRCWe3	-55 to +155°C	2	SMT	Vishay	CRCW120622K0FKE
N.A.	R115, R116, R215, R216	Power Metal Film Resistor	Axial-0.6	5%/2W/500V/PR02	-55 to +155°C	4	THT	Vishay	
N.A.	R117a, R117b, R117c, R117d, R118a, R118b, R118c, R118d, R217a, R217b, R217c, R217d, R218a, R218b, R218c, R218d	Thick Film Chip Resistor	1206	1%/0.25W/200V/CRCWe3	-55 to +155°C	16	SMT	Vishay	
3k3	R300, R301	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
1k2	R302, R303	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
10k	R304, R305	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
4k7	R306, R310	Thick Film Chip Resistor	1206	1%/0.25W/200V	-55 to +155°C	2	SMT		
10R	R307, R311	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
4k7	R308, R309, R312, R313	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	4	SMT		
6k8	R315, R317	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
150k	R316, R318	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
2k2	R319a, R319b	Thick Film Chip Resistor	1206	1%/0.25W/200V	-55 to +155°C	2	SMT		
7Pin	X1, X2	ConWTB_2.54mm_Wire to Board		250V/3A/7Pin/2.54mm	-40 to +105°C	2	THT	Würth Elektronik	7 Pin Connector
20Pin DIN41651-180°	X3	Eject Latch Header	2x10Pin, Pitch 2.54	1000V/1.75A/20Pin/2.54mm/180°	-55 to +105°C	1	THT	FCI	71918-120LF
2SC0108T2	X4	Gate Driver Core	2SC0108T2			1	THT	Power Integrations	2SC0108T2
RDHP-1415-2	Z1	Printed Circuit Board	N			1	N		

Legend:

- Mounting: "N" means that the corresponding entry is not a component that must be assembled onto the PCB (accessories, ...).
- 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.