


Bill of Material (BOM)						RDHP-1608			
Product name:		RDHP-1608							
PCB Number:		RDHP-1608-1							
Version:		v1-1							
Creation Date:		12.10.2016							
									
Value	Designator	Part Description	Package	Parameters	Temperature Range	Quantity	Mounting	Manufacturer 1	Type Designation 1
N.A.	C100, C200	Ceramic Chip Capacitor	0603	NP0,C0G/50V/5%	-55 to +125°C	2	SMT		
10n	C101, C201	Ceramic Chip Capacitor	0603	X7R/25V/10%	-55 to +125°C	2	SMT		
4u7	C102, C103, C104, C105, C202, C203, C204, C205	Ceramic Chip Capacitor	1206	X7R/25V/10%	-55 to +125°C	8	SMT		
1n	C300, C301, C316, C317	Ceramic Chip Capacitor	0603	NP0,C0G/25V/5%	-55 to +125°C	4	SMT		
100n	C302, C303, C305, C315	Ceramic Chip Capacitor	0603	X7R/25V/10%	-55 to +125°C	4	SMT		
4u7	C304, C306, C309, C311, C313	Ceramic Chip Capacitor	0805	X7R/16V/10%	-55 to +125°C	5	SMT		
220p	C307	Ceramic Chip Capacitor	0603	NP0,C0G/16V/10%	-55 to +125°C	1	SMT		
1n	C308	Ceramic Chip Capacitor	0805	X7R/50V/5%	-55 to +125°C	1	SMT		
100n	C310	Ceramic Chip Capacitor	0805	X7R/100V/10%	-55 to +125°C	1	SMT		
470n	C312, C314	Ceramic Chip Capacitor	0603	X7R/16V/10%	-55 to +125°C	2	SMT		
N.A.	D100, D200	Low Leakage Diode	SOD323	75V/200mA/250mW	-65 to +150°C	2	SMT	NXP	BAS416
PMEG4010CEJ	D101, D201, D305	Schottky Diode	SOD323F	40V/1A/350mW	-65 to +150°C	3	SMT	NXP	PMEG4010CEJ
N.A.	D102, D103, D202, D203	Rectifier Diode	DO-204AL	1000V/1A/25W	-65 to +150°C	4	THT	Fairchild	UF4007
ES1B	D104, D204	Rectifier Diode	SMA	100V/1A/1.47W	-50 to +150°C	2	SMT	FAIRCHILD	ES1B
BAT54S	D300, D301, D302, D303	Dual High Speed Diode 30V, Connected in Series	SOT23	30V/200mA/230mW	-65 to +125°C	4	SMT	NXP	BAT54S
1N4148WS	D304	Low Leakage Diode	SOD323	75V/150mA/200mW	-55 to +150°C	1	SMT	Vishay	1N4148WS
SN74AHC1G08	IC300, IC301	2-Input AND Gate	SC70-5	2.0V to 5.5V/20mA	-40 to +125°C (Ta)	2	SMT	Texas Instruments	SN74AHC1G08QDCKRQ1
LMC555IM	IC302	Precision Timer	SOIC-D	4.5V to 16V/200mA	-40 to +105°C (Ta)	1	SMT	Texas Instruments	LMC555IM
SID1182K	IC303, IC304	SCALE-IDRIVER	eSOP-R16B	4.75V to 5.25V/250kHz/1700mA/8.0A	-40 to +125°C	2	SMT	power integrations	SID1182K
NC7WZ14	IC305	UHS Inverter Schmitt Trigger	SC70-6	1.65V to 5.5V/100mA	-40 to +125°C (Ta)	1	SMT	Fairchild	NC7WZ14EP6X
PMV45EN2	Q300	Logic level N-Channel MOSFET	SOT23	30V/4.1A/510mW/35mOhm	-55 to +150°C	1	SMT	NXP	PMV45EN2
N.A.	R100, R101, R200, R201	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	4	SMT		
N.A.	R102, R103, R104, R105, R202, R203, R204, R205	Thick Film Chip Resistor	2010	1%/0.75W/400V	-55 to +155°C	8	SMT		
N.A.	R106, R108, R206, R208	Power Metal Film Resistor	Axial-0.6	5%/2W/500V/PR02	-55 to +155°C	4	THT	Vishay	
N.A.	R107a, R107b, R107c, R107d, R109a, R109b, R109c, R109d, R207a, R207b, R207c, R207d, R209a, R209b, R209c, R209d	Thick Film Chip Resistor	1206	1%/0.25W/200V/CRCWe3	-55 to +155°C	16	SMT	Vishay	
22k	R110, R210	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
100R	R300, R301	Thick Film Chip Resistor	0603	1%/0.1W/75V/CRCWe3	-55 to +155°C	2	SMT	Vishay	CRCW0603100RFKE
220R	R302, R303	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
10k	R304, R305, R312, R313	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	4	SMT		
4k7	R306, R307	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
4k22	R308	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	1	SMT		
1k2	R309	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	1	SMT		
100R	R310	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	1	SMT		
4k7	R311	Thick Film Chip Resistor	0805	1%/0.125W/150V	-55 to +155°C	1	SMT		
BV129.0010	TR300					1	THT	Contact PI Sales	
2Pin Header	X100, X101, X200, X201	Terminal Block	1x2Pin, Pitch 2.54	150V/6A/2Pin/2.54mm	-40 to +105°C	4	THT	Wuerth Electronic	691210910002
10Pin Male Box Header	X300	Eject Latch Header	2x5Pin, Pitch 2.54	500V/3A/10Pin/2.54mm/180°	-55 to +125°C	1	THT	Wuerth Elektronik	61201022821
RDHP-1608-1	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.