


Bill of Material (BOM)						RDHP-1526				
Product name:		RDHP-1526								
PCB Number:		RDHP-1526-1								
Version:		v1-1								
Creation Date:		03.08.2016								
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Value	Designator	Part Description	Package	Parameters	Temperature Range	Quantity	Mounting	Second Source	Manufacturer 1	Type Designation 1
33p	C100, C200	Ceramic Chip Capacitor	0603	NP0,C0G/50V/5%	-55 to +125°C	2	SMT	Y		
10n	C101, C201	Ceramic Chip Capacitor	0603	X7R/25V/10%	-55 to +125°C	2	SMT	Y		
4u7	C102, C103, C104, C105, C106, C107, C108, C109, C202, C203, C204, C205, C206, C207, C208, C209	Ceramic Chip Capacitor	1206	X7R/25V/10%	-55 to +125°C	16	SMT	Y		
1n	C300, C301	Ceramic Chip Capacitor	0603	NP0,C0G/25V/5%	-55 to +125°C	2	SMT	Y		
100n	C302, C303, C305	Ceramic Chip Capacitor	0603	X7R/25V/10%	-55 to +125°C	3	SMT	Y		
4u7	C304, C306, C309, C311, C313	Ceramic Chip Capacitor	0805	X7R/16V/10%	-55 to +125°C	5	SMT	Y		
220p	C307	Ceramic Chip Capacitor	0603	NP0,C0G/16V/10%	-55 to +125°C	1	SMT	Y		
1n	C308	Ceramic Chip Capacitor	0805	X7R/50V/5%	-55 to +125°C	1	SMT	Y		
100n	C310	Ceramic Chip Capacitor	0805	X7R/100V/10%	-55 to +125°C	1	SMT	Y		
470n	C312, C314	Ceramic Chip Capacitor	0603	X7R/16V/10%	-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
PMEG4010CEJ	D101, D201, D305	Schottky Diode	SOD323F	40V/1A/350mW	-65 to +150°C	3	SMT	N	NXP	PMEG4010CEJ
188V	D102, D202	Transient Voltage Suppressor	SMB	600W/5%	-55 to +150°C	2	SMT	N	Littelfuse	SMBJ160CA
176V	D103, D104, D105, D106, D203, D204, D205, D206	Transient Voltage Suppressor	SMB	600W/5%	-55 to +150°C	8	SMT	N	Littelfuse	SMBJ150A
ES1B	D107, D207	Rectifier Diode	SMA	100V/1A/1.47W	-50 to +150°C	2	SMT	N	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	N	NXP	BAT54S
1N4148WS	D304	Low Leakage Diode	SOD323	75V/150mA/200mW	-55 to +150°C	1	SMT	N	Vishay	1N4148WS
74LVC1G17	IC300, IC301	Single Schmitt trigger buffer	SOT353-1	1.65V to 5.5V/50mA	-40 to +125°C (Ta)	2	SMT	N	NXP	74LVC1G17GW
LMC555IM	IC302	Precision Timer	SOIC-D	4.5V to 16V/200mA	-40 to +105°C (Ta)	1	SMT	N	Texas Instruments	LMC555IM
SID1182K	IC303, IC304	SCALE-iDRIVER	eSOP-R16B	4.75V to 5.25V/250kHz/1790mW/8.0A	-40 to +125°C	2	SMT	N	Power Integrations	SID1182K
PBSS4041SPN	Q100, Q200	NPN/PNP low Vcesat BISS transistor	SO8	NPN and PNP\60V\6.7A\1W	-55 to +150°C	2	SMT	N	NXP	PBSS4041SPN
PMV45EN2	Q300	Logic level N-Channel MOSFET	SOT23	30V/4.1A/510mW/35mOhm	-55 to +150°C	1	SMT	N	NXP	PMV45EN2
120k	R100, R200	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT	Y		
120k	R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R201, R202, R203, R204, R205, R206, R207, R208, R209, R210	Thick Film Chip Resistor	1206	1%/0.25W/200V	-55 to +155°C	20	SMT	Y		
15R	R111, R112, R211, R212	Thick Film Chip Resistor	0805	1%/0.125W/150V	-55 to +155°C	4	SMT	Y		
N.A.	R113, R115, R213, R215	Power Metal Film Resistor	Axial-0.6	5%/2W/500V/PR02	-55 to +155°C	4	THT	N	Vishay	
N.A.	R114a, R114b, R114c, R114d, R116a, R116b, R116c, R116d, R214a, R214b, R214c, R214d, R216a, R216b, R216c, R216d	Thick Film Chip Resistor	1206	1%/0.25W/200V/CRCWe3	-55 to +155°C	16	SMT	N	Vishay	
22k	R116, R216	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT	Y		
100R	R300, R301	Thick Film Chip Resistor	0603	1%/0.1W/75V/CRCWe3	-55 to +155°C	2	SMT	N	Vishay	CRCW0603100RFKE
220R	R302, R303	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT	Y		
10k	R304, R305, R312, R313	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	4	SMT	Y		
4k7	R306, R307	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT	Y		
4k22	R308	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	1	SMT	Y		
1k2	R309	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	1	SMT	Y		
100R	R310	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	1	SMT	Y		
4k7	R311	Thick Film Chip Resistor	0805	1%/0.125W/150V	-55 to +155°C	1	SMT	Y		
BV129.0010	TR300					1	THT	N	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	N	Wuerth Elektronik	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	N	Wuerth Elektronik	61201022821
RDHP-1526-1	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.
  - 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.