


Bill of Material (BOM)						RDHP-1516			
Product name:		RDHP-1516							
PCB Number:		RDHP-1516-1							
Version:		v1-1							
Creation Date:		30.09.2015							
									
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		
N.A.	C100, C200	Ceramic Chip Capacitor	0603	NP0,C0G/50V/5%	-55 to +125°C	2	SMT		
4u7	C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C201, C202, C203, C204, C205, C206, C207, C208, C209, C210, C300, C301, C302, C303	Ceramic Chip Capacitor	1206	X7R/25V/10%	-55 to +125°C	24	SMT		
N.A.	C111, C211	Ceramic Chip Capacitor	1206	X7R/200V/5%	-55 to +125°C	2	SMT		
100n	C304, C307	Ceramic Chip Capacitor	0603	NP0,C0G/25V/10%	-55 to +125°C	2	SMT		
N.A.	C305, C306	Ceramic Chip Capacitor	0603	NP0,C0G/50V/1%	-55 to +125°C	2	SMT		
22n	C308	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
STPS340U	D101, D102, D103, D201, D202, D203	Schottky Diode	SMB	40V/3A	-65 to +150°C	6	SMT	STMicroelectronics	STPS340U
N.A.	D104, D105, D106, D107, D108, D109, D204, D205, D206, D207, D208, D209	Transient Voltage Suppressor	SMB			12	SMT		
BZX384-C5V1	D300	Zener Diode	SOD323	5.1V/250mA/300mW/5%	-65 to +150°C	1	SMT	NXP	BZX384-C5V1
BAV99	D301, D302, D303, D304, D305, D306	Dual High Speed Diode 70V, Connected in Series	SOT23	70V/200mA/250mW	-65 to +150°C	6	SMT		
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
6k8	R100, R200	Thick Film Chip Resistor	1206	1%/0.25W/200V/CRCWe3	-55 to +155°C	2	SMT	Vishay	CRCW12066K80FKE
68k	R101, R201	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
N.A.	R102, R104, R202, R204, R316	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	5	SMT		
20R	R103, R203	Thick Film Chip Resistor	1206	1%/0.25W/200V/CRCWe3	-55 to +155°C	2	SMT	Vishay	CRCW120620R0FKE
N.A.	R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R119a, R119b, R119c, R119d, R119e, R119f, R119g, R119h, R119i, R119j, R119k, R119l, R120a, R120b, R120c, R120d, R120e, R120f, R120g, R120h, R120i, R120j, R120k, R120l, R121, R205, R206, R207, R208, R209, R210, R211, R212, R213, R214, R215, R216, R219a, R219b, R219c, R219d, R219e, R219f, R219g, R219h, R219i, R219j, R219k, R219l, R220a, R220b, R220c, R220d, R220e, R220f, R220g, R220h, R220i, R220j, R220k, R220l, R221	Thick Film Chip Resistor	1206	1%/0.25W/200V/CRCWe3	-55 to +155°C	74	SMT	Vishay	
N.A.	R117a, R117b, R118a, R118b, R217a, R217b, R218a, R218b	Power Resistor	Axial-0.8	5%/3W/750V/PR03	-55 to +155°C	8	THT		
2k	R300a, R300b	Thick Film Chip Resistor	1206	1%/0.25W/200V	-55 to +155°C	2	SMT		
3k3	R301, R304	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
1k2	R302, R305	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
10k	R303, R306	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
4k7	R307, R311	Thick Film Chip Resistor	1206	1%/0.25W/200V	-55 to +155°C	2	SMT		
10R	R308, R312	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
4k7	R309, R310, R313, R314	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	4	SMT		
6k8	R315, R318	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
150k	R317, R319	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
Wuerth-Header 7Pin-180°	X1, X2	Single Row Straight with lock	1x7Pin, Pitch 2.54	1000V/3A/7Pin/2.54mm/180°	-40 to +105°C	2	THT	WE	619 007 111 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	FCI	71918-120LF
2SC0435T2	X4	Gate Driver Core	2SC0435T2			1	THT	Power Integrations	
RDHP-1516-1	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.