


Bill of Material (BOM)						RDHP-1423			
Product name:		RDHP-1423-2							
PCB Number:		RDHP-1423-2							
Version:		v2-1							
Creation Date:		29.09.2015							
									
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		
4u7	C100, C101, C200, C201, C302, C303, C306	Ceramic Chip Capacitor	1206	X7R/25V/10%	-55 to +125°C	7	SMT		
27p	C103, C203	Ceramic Chip Capacitor	0603	NP0,C0G/50V/5%	-55 to +125°C	2	SMT		
100n	C300, C301	Ceramic Chip Capacitor	0603	NP0,C0G/25V/10%	-55 to +125°C	2	SMT		
N.A.	C304, C305	Ceramic Chip Capacitor	0603	NP0,C0G/50V/1%	-55 to +125°C	2	SMT		
BAS416	D100, D200	Low Leakage Diode	SOD323	75V/200mA/250mW	-65 to +150°C	2	SMT	NXP	BAS416
N.A.	D101, D102, D103, D104, D105, D106, D201, D202, D203, D204, D205, D206	Transient Voltage Suppressor	SMB			12	SMT		
STPS340U	D107, D108, D109, D207, D208, D209	Schottky Diode	SMB	40V/3A	-65 to +150°C	6	SMT	STMicroelectronics	STPS340U
BAV99	D300, D301, D303, D304	Dual High Speed Diode 70V, Connected in Series	SOT23	70V/200mA/250mW	-65 to +150°C	4	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	N-Channel vertical D-MOS Transistor	SOT23	60V/300mA/830mW/2.8 Ohm	-65 to +150°C	1	SMT	NXP	2N7002
N.A.	R100, R200	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
N.A.	R101, R102, R103, R104, R105, R106, R107, R108, R130a, R130b, R130c, R130d, R140a, R140b, R140c, R140d, R201, R202, R203, R204, R205, R206, R207, R208, R230a, R230b, R230c, R230d, R240a, R240b, R240c, R240d	Thick Film Chip Resistor	1206	1%/0.25W/200V/CRCWe3	-55 to +155°C	32	SMT	Vishay	
22k	R111, R211	Thick Film Chip Resistor	1206	1%/0.25W/200V/CRCWe3	-55 to +155°C	2	SMT	Vishay	CRCW120622K0FKE
N.A.	R120, R121, R220, R221	Power Metal Film Resistor	Axial-0.6	5%/2W/500V/PR02	-55 to +155°C	4	THT	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		
4k7	R304	Thick Film Chip Resistor	1206	1%/0.25W/200V	-55 to +155°C	1	SMT		
2k2	R305a, R305b	Thick Film Chip Resistor	1206	1%/0.25W/200V	-55 to +155°C	2	SMT		
6k8	R306	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	1	SMT		
150k	R307	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	1	SMT		
4k7	R308, R309	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
10k	R310, R311	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	2	SMT		
10R	R312	Thick Film Chip Resistor	0603	1%/0.1W/50V	-55 to +155°C	1	SMT		
6Pin DUBOX	X1, X2	DUBOX Shrouded Header	1x6Pin, Pitch 2.54	1000V/3A/6Pin/2.54mm/180°	-40 to +125°C	2	THT	FCI	76384-306LF
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
2SC0106T	X4	Gate Driver Core	2SC0106T2			1	THT	Power Integrations	
RDHP-1423-2	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.