

Bill of Material (BOM)

Product name:

RDHP-1531

PCB Number:

RDHP-1531-2

Version:

v2-1

Creation Date:

02.02.2016

power

integrations™

Value	Designator	Part Description	Package	Parameters	Temperature Range	Quantity	Mounting	Manufacturer 1	Type Designation 1
150p	C100, C200	Metallized Polyester Capacitor	CAPTR2.54-4.6x3.0	63V/5%	-55 to +100°C	2	THT	WIMA	FKP0C001500B00JSSD
4u7	C300	Aluminium Electrolytic Capacitors	CAPPR2.5-6.3x11.5	50V/20%	-55 to +105°C	1	THT	Panasonic	EEU-HD1H4R7
100p	C302, C303	Metallized Polyester Capacitor	CAPTR2.54-4.6x3.0	63V/5%	-55 to +100°C	2	THT	WIMA	FKP0C001000B00JSSD
100n	C304	Metallized Polyester Capacitor	CAPTR2.54-4.6x3.0	63V/5%	-55 to +100°C	1	THT	WIMA	MKSOC031000C00KSSD
220n	C305	Metallized Polyester Capacitor	CAPTR2.54-4.6x3.0	63V/5%	-55 to +100°C	1	THT	WIMA	MKSOC032200C00KSSD
1N4007	D100, D101, D102, D200, D201, D202	Rectifier Diode	DO-204AL	1000V/1A/25W	-65 to +175°C	6	THT	Vishay	1N4007
SAC12	D103, D203	Transient Voltage Suppressor	DO-204AC	500W	-55 to +175°C	2	THT	Vishay	SAC12
1N458A	D104, D204	Small Signal Diode	DO-35	150V/500mA/500mW	-65 to +175°C	2	THT	Fairchild Semiconductor	1N458A
SB340	D105, D205	Schottky Diode	DO-201	40V/3A	-50 to +150°C	2	THT	Diotec	SB340
N.A.	D106, D107, D108, D109, D206, D207, D208, D209	Transient Voltage Suppressor	1.5KE	200A/1500W	-55 to +175°C	8	THT	Vishay	
P6KE15CA	D110, D210	Transient Voltage Suppressor	DO-204AC	200A/1500W	-55 to +175°C	2	THT	Vishay	P6KE15CA
CD40106	IC300	CMOS Hex Schmitt Triggers	DIP14	3 to 18V	-55 to +125°C	1	THT	Texas Instruments	CD40106BE
2N7000	Q300, Q301, Q302	N-Channel DMOS Transistor	TO-92	60V/200mA/400mW	-55 to +150°C	3	THT	Fairchild Semiconductor	2N7000
15k	R100, R200	Thin Film Resistor	0204	200V/250mW/1%	-55 to +125°C	2	THT	Vishay	MBA02040C1502F
330R	R101, R201	Thin Film Resistor	0204	200V/250mW/1%	-55 to +125°C	2	THT	Vishay	MBA02040C3300F
24k	R102, R202	Thin Film Resistor	0204	200V/250mW/1%	-55 to +125°C	2	THT	Vishay	MBA02040C2402F
22k	R103, R203	Thin Film Resistor	0204	200V/250mW/1%	-55 to +125°C	2	THT	Vishay	MBA02040C2202F
68k	R104, R204	Thin Film Resistor	0204	200V/250mW/1%	-55 to +125°C	2	THT	Vishay	MBA02040C6802F
N.A.	R105, R205	Thin Film Resistor	0204	200V/250mW/1%	-55 to +125°C	2	THT	Vishay	
N.A.	R110, R111, R210, R211	Power Resistor	Axial-0.6	5%/2W/500V/PR02	-55 to +155°C	4	THT		
4k7	R300, R301	Thin Film Resistor	0204	200V/250mW/1%	-55 to +125°C	2	THT	Vishay	MBA02040C4701F
10k	R302, R303, R304, R305	Thin Film Resistor	0204	200V/250mW/1%	-55 to +125°C	4	THT	Vishay	MBA02040C1002F
2k7	R306, R307	Thin Film Resistor	0204	200V/250mW/1%	-55 to +125°C	2	THT	Vishay	MBA02040C2701F
150k	R308, R310	Thin Film Resistor	0204	200V/250mW/1%	-55 to +125°C	2	THT	Vishay	MBA02040C1503F
6k8	R309, R311	Thin Film Resistor	0204	200V/250mW/1%	-55 to +125°C	2	THT	Vishay	MBA02040C6801F
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	QuickieIII-180°	2x10Pin, Pitch 2.54	1000V/3A/20Pin/2.54mm/180°	-55 to +105°C	1	THT	FCI	71918-120LF
2SC0108T2	X10	Gate Driver Core	2SC0108T2			1	THT	Power Integrations	2SC0108T2
RDHP-1531-2	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.