TID# TIDA-01432

REFERENCE DESIGNATOR	QUANTITY	VALUE	DESCRIPTION	PACKAGEREFERENCE	PART NUMBER	MANUFACTURER
C1	1	2.2uF	CAP, CERM, 2.2 µF, 50 V, +/- 10%, X5R, 0805	0805	C2012X5R1H225K125AB	TDK
C5	1	10uF	CAP, CERM, 10uF, 50V, +/-10%, X7R, 1210	1210	GRM32ER71H106KA12L	MuRata
C6, C9	2	4700pF	CAP, CERM, 4700 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603	C0603C472J1GAC7867	Kemet
C7	1	0.01uF	CAP, CERM, 0.01 µF, 10 V, +/- 10%, X5R, 0402	0402	GRM155R61A103KA01D	MuRata
C8	1	4.7uF	CAP, CERM, 4.7 µF, 35 V, +/- 10%, X5R, 0603	0603	C1608X5R1V475K080AC	TDK
C10	1	12pF	CAP, CERM, 12 pF, 25 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402	C0402C120J3GACAUTO	Kemet
C13	1	470uF	CAP, AL, 470 µF, 50 V, +/- 20%, SMD	KG5	EMVA500ATR471MKG5S	Chemi-Con
C14, C16, C17	3	10uF	CAP, CERM, 10 µF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206_190	1206_190	GCM31CR71A106KA64L	MuRata
C15, C18, C20, C21, C22, C23	6	0.1uF	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603	GCM188R71H104KA57D	MuRata
C19	1	2.2uF	CAP, CERM, 2.2 µF, 25 V, +/- 10%, X5R, 0402	0402	C1005X5R1E225K050BC	TDK
Cbias1	1	0.1uF	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0402	0402	C1005X7R1H104K050BB	TDK
Cboot1	1	0.47uF	CAP, CERM, 0.47 µF, 10 V, +/- 10%, X5R, 0402	0402	C1005X5R1A474K050BB	TDK
Cin1	1	47uF	CAP, AL, 47 µF, 63 V, +/- 20%, 0.65 ohm, SMD	SMT Radial F	EEE-FK1J470P	Panasonic
Cin2, Cin3	2	10uF	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, 1210	1210	GRM32ER71H106KA12L	MuRata
Cin4, Cin5	2	0.047uF	CAP, CERM, 0.047 µF, 50 V,+/- 10%, X7R, 0603	0603	GRM188R71H473KA61D	MuRata
COUT1, COUT2	2	22uF	CAP, CERM, 22 µF, 25 V, +/- 10%, X5R, 1210	1210	GRM32ER61E226KE15L	MuRata
COUT3	1	120uF	CAP, AL, 120 µF, 10 V, +/- 20%, 0.025 ohm, SMD	F61	APXE100ARA121MF61G	Chemi-Con
COUT4	1	0.047uF	CAP, CERM, 0.047 µF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603	GCM188R71E473KA37D	MuRata
Csnub1	1	3300pF	CAP, CERM, 3300 pF, 10 V, +/- 10%, X5R, 0201	0201	GRM033R61A332KA01D	MuRata
D1	1	28V	Diode, TVS, Bi, 28 V, 45.4 Vc, SMB	SMB	SMBJ28CA-13-F	Diodes Inc.
D2, D3	2	16V	Diode, TVS, Bi, 16 V, 400 W, SMA	SMA	SMAJ16CA	Littelfuse
D4	1	5V	Diode, TVS, Uni, 5 V, 20 W, AEC-Q101, SOT-416	SOT-416	ESDR0502BT1G	ON Semiconductor
J1	1		RF Coaxial Connector, Bordeaux, R/A, TH	Right Angle Plug for PCB, 6-Lead, TH	99S20D-40MA5-D	Rosenberger
J2	1		Receptacle, USB TYPE C, R/A, SMT	Receptacle, USB TYPE C, R/A, SMT	201267-0001	Molex
L1	1	10uH	Inductor, Shielded, Composite, 10 µH, 4.9 A, 0.05 ohm, SMD	XAL5050	XAL5050-103MEB	Coilcraft
L2	1	8.2uH	Inductor, Shielded, Ferrite, 8.2 µH, 4.5 A, 0.0505 ohm, SMD	Inductor, 7.2x4x6.5mm	SRP6540-8R2M	Bourns
Q1	1	40V	MOSFET, N-CH, 40 V, 75 A, PowerPAK_SO-8L	PowerPAK_SO-8L	SQJ422EP-T1-GE3	Vishay-Siliconix
R1	1	0	RES, 0, 5%, 0.063 W, 0402	0402	CRCW04020000Z0ED	Vishay-Dale
R2	1	1.00k	RES, 1.00 k, 1%, 0.1 W, 0402	0402	ERJ-2RKF1001X	Panasonic
R3, R20	2	0	RES, 0, 5%, 0.063 W, 0402	0402	MCR01MZPJ000	Rohm
R4	1	5.11k	RES, 5.11 k, 1%, 0.063 W, 0402	0402	CRCW04025K11FKED	Vishay-Dale
R5, R6, R7, R8, R9	5	100k	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402	RMCF0402FT100K	Stackpole Electronics Inc
R10	1	2.00k	RES, 2.00 k, 1%, 0.063 W, 0402	0402	CRCW04022K00FKED	Vishay-Dale
R11	1	15.4k	RES, 15.4 k, 1%, 0.063 W, 0402	0402	CRCW040215K4FKED	Vishay-Dale
R12	1	80.6k	RES, 80.6 k, 1%, 0.063 W, 0402	0402	CRCW040280K6FKED	Vishay-Dale
R13, R14, R16	3	200k	RES, 200 k, 1%, 0.063 W, 0402	0402	CRCW0402200KFKED	Vishay-Dale
R15	1	26.1k	RES, 26.1 k, 1%, 0.063 W, 0402	0402	CRCW040226K1FKED	Vishay-Dale
R17	1	1.00k	RES, 1.00 k, 1%, 0.063 W, 0402	0402	CRCW04021K00FKED	Vishay-Dale
R18	1	10.0k	RES, 10.0 k, 1%, 0.063 W, 0402	0402	CRCW040210K0FKED	Vishay-Dale
R19	1	49.9k	RES, 49.9 k, 1%, 0.063 W, 0402	0402	CRCW040249K9FKED	Vishay-Dale
Rbias1	1	3.0	RES, 3.0, 5%, 0.063 W, 0402	0402	CRCW04023R00JNED	Vishay-Dale
RFA1	1	2.94k	RES, 2.94 k, 1%, 0.063 W, 0402	0402	CRCW04022K94FKED	Vishay-Dale
RFB1	1	49.9k	RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402	ERJ-2RKF4992X	Panasonic
RG1	1	12.1k	RES, 12.1 k, 1%, 0.063 W, 0402	0402	CRCW040212K1FKED	Vishay-Dale
Rsnub1	1	8.2	RES, 8.2, 5%, 0.063 W, 0402	0402	CRCW04028R20JNED	Vishay-Dale
TP1, TP2	2		Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone
TP3, TP5	2		Test Point, Miniature, Black, TH	Black Miniature Testpoint	5001	Keystone
U1	1		LMS3635AQRNLRQ1, RNL0022A (VQFN-HR-22)	RNL0022A	LMS3635AQRNLRQ1	Texas Instruments
U3	1		Automotive USB Charging Port Controller and Power Switch with Short to BAT protection, RVC0020A	RVC0020A	TPS254900IRVCRQ1	Texas Instruments
U4	1		USB 2.0 HIGH SPEED SIGNAL CONDITIONER, RGY0014A (VQFN-14)	RGY0014A	TUSB213RGYR	Texas Instruments
U5	1		USB Type-C DFP Port Controller, DRF0008A	DRF0008A	TUSB319DRFRQ1	Texas Instruments
U6	1		Single Inverter Gate, DCK0005A (SOT-5)	DCK0005A	SN74AHCT1G04DCKR	Texas Instruments
U7	1		Zero Iq Reverse Polarity Protection Smart Diode Controller, DGK0008A (VSSOP-8)	DGK0008A	LM74610QDGKRQ1	Texas Instruments

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