

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2, C4, C5, C8, C9, C12, C13, C24, C30	10	0.1uF	HMK107B7104KAHT	Taiyo Yuden	CAP, CERM, 0.1 μ F, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C3	1	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 μ F, 100 V, +/- 10%, X7R, 0603	0603
C6	1	0.1uF	06035C104KAZ2A	AVX	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C7	1		C0603C153K5RACTU	Kemet	Cap Ceramic 0.015uF 50V X7R 10% Pad SMD 0603 125°C T/R	0603
C10, C11, C14, C15	4	0.1uF	C0603C104K5RACTU	Kemet	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0603	0603
C16	1	0.01uF	08051C103JAT2A	AVX	CAP, CERM, 0.01 μ F, 100 V, +/- 5%, X7R, 0805	0805
C17	1	0.1uF	C1005X7R1E104M050BB	TDK	CAP, CERM, 0.1 μ F, 25 V, +/- 20%, X7R, 0402	0402
C18, C19, C20, C21, C25, C26, C27, C28	8	2.2 μ F	GRM21BD72A225ME01K	Murata	Chip Multilayer Ceramic Capacitor for General Purpose 2.2uF $\pm$ 20% 100V X7T SMD 0805	0805
C22	1	22 μ F	CGA9P3X7R1H226M250KB	TDK	Cap Ceramic 22uF 50V X7R 20% SMD 2220 125°C T/R	2220
C23, C29	2	4.7 μ F	GRM31CC72A475KE11L	Murata	4.7 μ F $\pm$ 10% 100V Ceramic Capacitor X7S 1206 (3216 Metric)	1206
C31	1	1 μ F	CGA3E1X7R1C105M080AC	TDK	Cap Ceramic 1uF 16V X7R 20% Pad SMD 0603 +125°C Automotive T/R	0603
C32, C33, C34, C36	4	10 μ F	C3225X7R2A106K250AC	TDK	10 μ F $\pm$ 10% 100V Ceramic Capacitor X7R 1210 (3225 Metric)	1210
C35	1	DNP	C3225X7R2A106K250AC	TDK	DNP	1210
C37	1		Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
C38, C39	2	10pF	DNP	Kemet	DNP	0603
D1	1	75V	1N4148WS-7-F	Diodes Inc.	Diode, Switching, 75 V, 0.15 A, AEC-Q101, SOD-323	SOD-323
D2	1				Diode, Superfast Rectifier, SMA	SMA
D3	1	100V	MBRB41H100CTT4G	ON Semiconductor	Diode, Schottky, 100 V, 20 A, DPAK	DDPAK
D4	1	75V	1SMB5946BT3G	ON Semiconductor	Diode, Zener, 75 V, 550 mW, SMB	SMB
J1, J2, J3, J4	4		5-146278-3	TE Connectivity	Header, 100mil, 3x1, Tin, TH	Header, 3x1, 100mil, TH
J5, J11	2		TSW-104-07-G-D	Samtec	Header, 100mil, 4x2, Gold, TH	4x2 Header
J6, J7, J8	3		5-146278-2	TE Connectivity	Header, 100mil, 2x1, Tin, TH	Header, 2x1, 100mil, TH
J9, J10	2		1715721	Phoenix Contact	Terminal Block, 5.08 mm, 2x1, TH	2POS Terminal Block
L1	1	600 ohm	FBMH3225HM601NT	Taiyo Yuden	Ferrite Bead, 600 ohm @ 100 MHz, 3 A, 1210	1210
L2	1	1.5uH	XGL4030-152MEC	Coilcraft	Shielded Power Inductors 1.5 μ H 10.2A 10.5mOhm Max Nonstandard	SMT2_4MM0_4MM0
L3	1	2.2uH	XGL6060-222MEC	Coilcraft	1.8 μ H Shielded Molded Inductor	SMT2_6MM51_6MM71
Q1	1		short	Infineon Technologies	short	DPAK
Q2, Q3	2		NTMFS08N004C	ON Semiconductor	N-Channel 80V 126A (Tc) 125W (Tc) Surface Mount 8-PQFN (5x6), Power56	PQFN8
Q4	1	100 V	BSS63	Fairchild Semiconductor	Transistor, PNP, 100 V, 0.2 A, SOT-23	SOT-23

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R1, R2, R11, R12, R14, R15, R18, R19, R31, R32, R33, R41, R43, R45, R50, R51, R53, R55, R64, R68	20	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R3, R16, R17, R25, R26, R37, R47, R62, R63, R65, R67, R69, R71, R72	14	DNP	DNP	Stackpole Electronics Inc	DNP	0603
R4	1	71.5k	CRCW060371K5FKEA	Vishay-Dale	RES, 71.5 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R5, R6, R22, R23, R30, R35, R38	7	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R7	1	374k	CRCW0603374KFKEA	Vishay-Dale	RES, 374 k, 1%, 0.1 W, 0603	0603
R7, R8, R10, R13, R20, R39, R54, R60	8	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R9	1	TBD	TBD	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R24, R28, R29, R36, R40	5		RMCF0805ZT0R00	Stackpole Electronics	0 Ohms Jumper 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thick Film	0805
R27	1	100	CRCW0805100RFKEA	Vishay-Dale	RES, 100, 1%, 0.125 W, 0805	0805
R34	1	3.48k	CRCW06033K48FKEA	Vishay-Dale	RES, 3.48 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R42	1	121k	CRCW0603121KFKEA	Vishay-Dale	RES, 121 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R44, R46, R49, R103	4	0	CRCW12060000Z0EAC	Vishay	Jumper 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) - Thick Film	1206
R48	1	47.0k	RC1206FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.25 W, 1206	1206
R52	1	1	ESR10EZPJ1R0	Rohm	RES, 1.0, 5%, 0.4 W, AEC-Q200 Grade 0, 0805	0805
R56	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R57	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R58	1	10k	CRCW120610K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.25 W, 1206	1206
R59	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R61	1	49.9	M55342K12B49D9T	TT Electronics/IRC	RES, 49.9, 1%, 0.1 W, 0603	0603
R66	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R70	1	15.8k	CRCW060315K8FKEA	Vishay-Dale	RES, 15.8 k, 1%, 0.1 W, 0603	0603
R101, R102	2	2.00k	Y16362K00000F9R	Vishay Foil Resistors	RES, 2.00 k, 1%, 0.1 W, 0603	0603
TP1, TP2, TP3, TP4, TP8, TP9, TP10, TP11, TP12, TP13	10		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
TP5, TP6, TP7, TP14, TP15, TP16, TP17, TP18	8		5004	Keystone	Test Point, Miniature, Yellow, TH	Yellow Miniature Testpoint
TP19, TP38	2		5011	Keystone Electronics	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
TP20, TP21, TP22, TP23, TP24, TP25, TP26, TP27, TP28, TP29, TP30, TP31, TP32, TP33, TP34, TP36, TP37, TP39, TP40, TP42, TP43	21		5000	Keystone Electronics	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP35, TP41	2		5001	Keystone Electronics	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1, U2	2		TPS3762-Q1	Texas Instruments	Wide VIN 65 V Dual Channel Overvoltage & Undervoltage (OV & UV) TPS3762D02OVDDFR	SOT023-8
U3	1		LM74800	Texas Instruments	Ideal Diode Controller with Load Dump Protection	WSON12
U4	1		LM68645SCRZTRQ1	Texas Instruments	3.5V to 65V Synchronous Step-Down Voltage Regulator	WQFN-FCRLF20

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