

Filename: eoq3gd3x.xlsx
 Variant: 001_IWR
 Generated: 9/23/2024 9:47 PM
 TID #: TIDEP-01033



TIDEP-01033 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C2, C4, C9, C10, C17, C19, C20	7	2.2uF	GRT155C71A225KE13D	MuRata	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0402	0402
2	C6, C23, C44	3		GCM188D70J106ME36D	Murata	Chip Multilayer Ceramic Capacitors for Automotive	0603
3	C11	1	0.047uF	GRM033R61C473KE84D	MuRata	CAP, CERM, 0.047 uF, 16 V, +/- 10%, X5R, 0201	0201
4	C13, C15, C29	3	10uF	GRM155R61A106ME11	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0402	0402
5	C18, C22, C35	3	1uF	CL03A105MP3NSNC	Samsung Electro-Mechanics	CAP, CERM, 1 uF, 10 V, +/- 20%, X5R, 0201	0201
6	C27	1	4.7uF	GCJ21BR71C475KA01L	Murata	Multilayer Ceramic Capacitors MLCC - SMD/SMT 0805 4.7uF 10%, 16VDC, X7R 15%	0805
7	C32, C33	2	4.7pF	GJM1555C1H4R7BB01D	MuRata	CAP, CERM, 4.7 pF, 50 V, +/- 2%, C0G/NP0, 0402	0402
8	C34	1	0.1uF	CL05B104KP5NNNC	Samsung Electro-Mechanics	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
9	C68	1	47uF	GRM31CR60J476ME19L	MuRata	CAP, CERM, 47 uF, 6.3 V, +/- 20%, X5R, 1206	1206
10	C72, C128, C129	3	10uF	GRM188Z71A106MA73D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0603	0603
11	C73	1	0.47uF	GRM188R71C474KA88D	MuRata	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X7R, 0603	0603
12	C74	1	470pF	GRM1555C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
13	C132	1	0.22uF	GCM155R71C224KE02D	MuRata	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
14	J3	1		M50-3500642	Harwin	Header, 1.27mm, 6x2, Gold, TH	Header, 1.27mm, 6x2, TH
15	L6	1	0.1uH	LQM2MPZR10MJHL	Murata	100nH Shielded Multilayer Inductor 4A 19mOhm Max 0806 (2016 Metric)	0806 (2016)
16	L15	1	0.47uH	DFE201210U-R47M=P2	Murata	470nH Shielded Wirewound Inductor 3A 42mOhm Max 0805 (2012 Metric)	0805 (2012)
17	Q3	1	100V	BSS123W-7-F	Diodes Inc.	MOSFET, N-CH, 100 V, 0.17 A, SOT-323	SOT-323
18	R1, R4, R7, R20, R44, R49, R75	7	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
19	R2	1	0	MCT06030Z0000ZP500	Vishay/Beyschlag	RES, 0, 5%, 0.125 W, 0603	0603
20	R50	1	47.5k	AC0402FR-0747K5L	Yageo	Res Thick Film 0402 47.5K Ohm 1% 1/16W ±100ppm/°C Molded SMD Paper T/R	0402
21	R73, R74	2	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
22	R178, R244	2	100k	CRCW0402100KFKEDC	Vishay	100 kOhms ±1% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Thick Film	0402
23	R180	1	18.0k	CRCW040218K0FKED	Vishay-Dale	RES, 18.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
24	U1	1		IWRL6432QGAMF	Texas Instruments	IWRL6432QGAMF	FCCSP102
25	U2	1		MX25R1635FZUIH0	Macronix International Co., L	ULTRA LOW POWER, 16M-BIT [x 1/x 2/x 4] CMOS MXSMIO (SERIAL MULTI I/O) FLASH MEMORY, SON-8	SON-8
26	U3	1		TLV75533PDRVR	Texas Instruments	500mA LDO, DRV0006A (WSON-6)	DRV0006A
27	U20	1		TPS628502MDRLR	Texas Instruments	2.7-V to 6-V, 2-A Step-Down Converter in SOT583 Package	SOT583
28	Y1	1		XRCGE40M000FBAABRO	Murata	Crystal Unit 40MHz 15ppm 50Ohm 8pF 2.0x1.6x0.65mm SMT AECQ200	SMT_CRYSTAL_2M M0_1MM6
29	C130, C131	0	22uF	GRM31CR70J226ME19K	Murata	Chip Multilayer Ceramic Capacitors for General Purpose, 1206, 22uF, X7R, 15%, 20%, 6.3V	1206
30	J4	0		GRPB051VWCN-RC	Sullins Connector Solutions	Header, 1.27 mm, 5x1, Gold, R/A, TH	Header, 1.27mm, 5x1, RA, TH
31	R3, R5	0	0	MCT06030Z0000ZP500	Vishay/Beyschlag	RES, 0, 5%, 0.125 W, 0603	0603
32	R8	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
33	R173, R176	0	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
34	R175, R177	0	100k	CRCW0402100KFKEDC	Vishay	100 kOhms ±1% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Thick Film	0402

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