

REV Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1			Any	Printed Circuit Board	
C1	1	10uF	GRM188R61A106MAALD	MuRata	CAP, CERM, 10 uF, 10 V,+/- 20%, X5R, 0603	603
C2, C14, C15, C26	4	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
C3	1	2700pF	06031C272JAT2A	AVX	CAP, CERM, 2700 pF, 100 V, +/- 5%, X7R, 0603	603
C8, C9, C10, C11, C12, C13	6	10uF	C3216X5R1V106M160AB	TDK	CAP, CERM, 10 uF, 35 V, +/- 20%, X5R, 1206	1206
C16	1	470uF	EEF-HX0E471R4	Panasonic	CAP, Aluminum Polymer, 470 µF, 2.5 V,+/- 20%, 0.0045 ohm, 7343-20 SMD	7343-20
C23	1	0.68uF	C0603C684Z9VACTU	Kemet	CAP, CERM, 0.68 uF, 6.3 V, +80/-20%, Y5V, 0603	603
C24	1	1uF	GRM188C80G105MA01D	MuRata	CAP, CERM, 1 uF, 4 V, +/- 20%, X6S, 0603	603
C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50	23	22µF	GRM187R60J226ME15D	Murata	22µF ±20% 6.3V Ceramic Capacitor X5R 0603 (1608 Metric)	603
J1	1		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
J2	1		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
J3	1		BGA1744-ADL-P	Intel	Intel BGA1744-ADL-P Interposer for the Gen5 VR Test Tool	BGA1744
JP1, JP2, JP3, JP4	4		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, TH	Header, 3 PIN, 100mil, Tin
L1	1	150nH	SICP0630S-R15M-WC1W	Lianzhen Electronics	Inductor, 150 nH, 40 A, 0.00072 ohm, SMD	7.3x2.8x6.8mm
Q1	1	30V	CSD87355Q5D	Texas Instruments	MOSFET, 2-CH, N-CH, 30 V, 45 A, DQY0008A (LSON-CLIP-8)	DQY0008A
R1, R22, R23, R24, R39, R40	6	10.0k	RC0603FR-0710KL	Yageo	RES, 10.0 k, 1%, 0.1 W, 0603	603
R2	1	34.8k	CRCW060334K8FKEA	Vishay-Dale	RES, 34.8 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R3	1	30.0k	ERA-3AED303V	Panasonic	RES, 30.0 k, 0.5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R4	1	549	RC0603FR-07549RL	Yageo	RES, 549, 1%, 0.1 W, 0603	603
R5	1	17.8k	CRCW060317K8FKEA	Vishay-Dale	RES, 17.8 k, 1%, 0.1 W, 0603	603
R6	1	20.0k	RT0603BRD0720KL	Yageo America	RES, 20.0 k, 0.1%, 0.1 W, 0603	603
R7	1	8.25k	RT0603DRE078K25L	Yageo America	RES, 8.25 k, 0.5%, 0.1 W, 0603	603
R8, R9, R11, R13, R14, R17, R20, R26, R29, R31, R38, R41, R42	13	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	603
R10	1	30.1k	RG1608P-3012-B-T5	Susumu Co Ltd	RES, 30.1 k, 0.1%, 0.1 W, 0603	603
R12, R18	2	100	RG1608P-101-B-T5	Susumu Co Ltd	RES, 100, 0.1%, 0.1 W, 0603	603
R15	1	60.4k	RT0603DRE0760K4L	Yageo America	RES, 60.4 k, 0.5%, 0.1 W, 0603	603
R21	1	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	603

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R25, R34	2	620k	RC0603FR-07620KL	Yageo	RES, 620 k, 1%, 0.1 W, 0603	603
R27	1	82	RC0603FR-0782RL	Yageo	RES, 82.0, 1%, 0.1 W, 0603	603
R28, R30	2	8.20k	RC0603FR-078K2L	Yageo	RES, 8.20 k, 1%, 0.1 W, 0603	603
R33	1	330	CRCW0603330RJNEA	Vishay-Dale	RES, 330, 5%, 0.1 W, 0603	603
R36	1	30	ERJ-3EKF30R0V	Panasonic	RES, 30.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
RT1	1	10k	NCP18XQ102J03RB	MuRata	Thermistor NTC, 10k ohm, 1%, 0603	603
SH-JP1, SH-JP2, SH-JP3, SH-JP4	4	1x2	SNT-100-BK-G	Samtec	Shunt, 100mil, Gold plated, Black	Shunt
TP1, TP3, TP7, TP8, TP9, TP10, TP17, TP18, TP19, TP20, TP22	11		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP2, TP5, TP6, TP11, TP12, TP13, TP14, TP15, TP16	9		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		TPS51215ARUKR	Texas Instruments	High Performance, Single Phase D CAP2 Controller with 2 bit VID, RUK0020B (WQFN-20)	RUK0020B
U2	1		TLV9051IDCKR	Texas Instruments	Single 5-MHz, 15-V/ μ s high slew-rate, RRIO op amp 5-SC70 -40 to 125	SC-70-5
C4, C5	0	100pF	06035A101JAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C6	0	220uF	ELXZ350ELL221MH15D	Chemi-Con	CAP, AL, 220 uF, 35 V, +/- 20%, AEC-Q200 Grade 2, TH	D8xL18mm
C7	0	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
C17	0	220uF	6TPF220M5L	Panasonic	CAP, Tantalum Polymer, 220 uF, 6.3 V, +/- 20%, 0.005 ohm, 7.3x4.3mm SMD	7.3x4.3mm
C18, C19, C20, C21	0	22uF	GRM21BR60J226ME39L	MuRata	CAP, CERM, 22 uF, 6.3 V, +/- 20%, X5R, 0805	805
C22	0	1000pF	CL10C102JB8NNNC	Samsung Electro-Mechanics	CAP, CERM, 1000 pF, 50 V, +/- 5%, X7R, 0603	603
H1, H2, H3, H4	0		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
R16	0	1	CRCW06031R00JNEA	Vishay-Dale	RES, 1.0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R19	0	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	603
R35	0	10.0k	RC0603FR-0710KL	Yageo	RES, 40, 1%, 0.1 W, 0603	603
R43, R44	0	10.0k	RC0603FR-0710KL	Yageo	RES, 10.0 k, 1%, 0.1 W, 0603	603

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