

TIDA-011002 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB	1		TIDA-011002	Any	Printed Circuit Board	
C1.1, C1.2, C1.3, C1.4, C1.5, C1.6, C1.7, C1.8	8	1 μ F	885012208093	Würth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 1206, X7R, 1 μ F, 50VDC	
C2.1, C2.2, C2.3, C2.4, C2.5, C2.6, C2.7, C2.8	8	1 μ F	885012206052	Würth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, X7R, 1 μ F, 16VDC	
C3, C4, C5, C6, C7, C8, C9, C10, C23, C24, C30, C33, C34, C36, C37, C38, C103, C117, C135.1, C135.2, C137.1, C137.2, C139.1, C139.2, C141.1, C141.2, C142.1, C142.2, C143, C149, C150, C151, C152, C153, C157, C162	36	100 nF	885012105018	Würth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0402, X5R, 100nF, 25VDC	
C11, C12, C13, C14, C16, C17, C18, C19	8	22 nF	885012207124	Würth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0805, X7R, 22nF, 100VDC	
C15, C20	2	100pF	885012005080	Würth Electronics	100 pF \pm 5% 100V Ceramic Capacitor C0G, NP0 0402 (1005 Metric)	0402
C21, C22, C148, C163	4	2.2 μ F	885012209071	Würth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 1210, X7R, 2.2 μ F, 100VDC	
C25, C26, C27, C28, C29, C32, C35, C39, C41, C42, C43, C130.1, C130.2, C133.1, C133.2, C136.1, C136.2, C138.1, C138.2, C144, C146, C154, C155, C158, C159, C164	26	1uF	885012105012	Würth Elektronik	CAP, CERM, 1 uF, 10 V, +/- 20%, X5R, 0402	0402
C31, C131.1, C131.2, C134.1, C134.2, C145, C147, C156	8	10 nF	885012205012	Würth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0402, X7R, 10nF, 10VDC	

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C44, C45, C46, C61, C63, C65, C66, C75, C84, C86, C91, C92, C93, C100, C121, C123, C125	17	4.7 μ F	885012106005	Wurth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, X5R, 4.7 μ F, 6.3VDC	
C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C62, C64, C67, C68, C69, C70, C71, C72, C73, C74, C76, C77, C78, C79, C80, C81, C82, C83, C85, C87, C88, C89, C90, C94, C95, C96, C97, C98, C99, C101, C102, C122, C124, C126	48	100nF	885012104009	Wurth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0201, X5R Class II, 100nF, 6.3VDC	
C104, C105, C106, C107, C120	5	4.7 μ F	885012209048	Wurth	4.7 μ F \pm 10% 50V Ceramic Capacitor X7R 1210 (3225 Metric)	1210
C108, C109, C115	3	22 μ F	885012208019	Wurth Elektronik	CAP, CERM, 22 μ F, 10 V, +/- 10%, X7R, 1206	1206
C110, C111, C113, C129.1, C129.2, C132.1, C132.2	7	10 μ F	885012208041	Wurth Elektronik	CAP, CERM, 10 μ F, 16 V, +/- 10%, X7R, 1206	1206
C112, C114	2	27pF	885392005116	Wurth Elektronik	WCAP-CSRFB Multilayer Ceramic Chip Capacitor, High Frequency, size 0402, NP0 Class I, 27pF, 50VDC	
C116	1	220 μ F	865230557007	Wurth Elektronik	WCAP-AS5H Aluminum Electrolytic Capacitor, V-Chip, D10 x H10.5mm, 220 μ F, 35V	
C118	1	100 nF	885012208087	Wurth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 1206, X7R, 100nF, 50VDC	
C128.1, C128.2	2	2.2nF	885012205063	Wurth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0402, X7R, 2.2nF, 50VDC	
C140.1, C140.2	2	0.01 μ F	1825GC103KAT1A	AVX	CAP, CERM, 0.01 μ F, 2000 V, +/- 10%, X7R, 1825	1825
C160, C161	2	12pF	885392005127	Wurth	12 pF \pm 2% 50V Ceramic Capacitor C0G, NP0 0402 (1005 Metric)	0402
D1, D2, D3, D4, D5, D6, D7, D8	8	Red/Green	150066RG74000	Wurth	Green, Red 520nm Green, 625nm Red LED Indication - Discrete 3.2V Green, 2V Red 0606 (1616 Metric)	0606

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
D9, D10, D11, D12, D13, D14, D15, D16, D20, D21, D22, D24, D29, D30, D31	15	Green	150040GS73240	Würth Elektronik	LED, Green, SMD	1x0.5mm
D23, D28	2		150040RS73240	Würth	Red 624nm LED Indication - Discrete 2V 0402 (1005 Metric)	0402
D25	1	33V	SMCJ33CA	Bourns	Diode, TVS, Bi, 33 V, SMC	SMC
D26.1, D26.2, D27.1, D27.2	4		ESD441DPLR	Texas Instruments	1-pF, 5.5-V, 30-KV ESD protection device in 0201 package 2-X2SON -40 to 125	X2SON2
D35	1		TPD2E2U06DCKR	Texas Instruments	12.4V (Typ) Clamp 5.5A (8/20µs) Ipp Tvs Diode Surface Mount SC-70-3	SC70
F1	1	10A	TR2/6125FF10-R	Eaton	Fuse, 10 A, 125 VAC, 72 VDC, SMD	6.1x2.72mm
FID4, FID5, FID6	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
H1, H2, H3, H9, H11, H12	6		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H5, H6, H7, H10, H13, H14	6		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
J1.1, J1.2, J1.3, J1.4, J1.5, J1.6, J1.7, J1.8	8		643260100605	Würth Elektronik	WR-CIRCM12 Screw Mating Panel Connector Female Metal PG9, THT, 5p	
J2	1		694106301002	Würth	Power Barrel Connector Jack 2.10mm ID (0.083"), 5.50mm OD (0.217") Through Hole, Right Angle	CONN_PWR_JACK
J3	1		FTR-110-51-S-D-06	Samtec	Header, 1.27mm, 10x2, Tin, SMT	Header, 1.27mm, 10x2, SMT
J4.1, J4.2	2		7498011211	Würth Elektronik	WE-RJ45 LAN Transformer, SMT, 10/100 Base-T, Tab Down, 1 Port	
J5	1		691305540002	Würth Elektronik	WR-TBL Series 3055 PCB Header Horizontal Entry with Plastic Latches, THT, pitch 5.08mm, 02p	
J6	1		61300411121	Würth Elektronik	Header, 2.54 mm, 4x1, Gold, TH	Header, 2.54mm, 4x1, TH
J7	1		629105150521	Würth Electronics	USB - micro B USB 2.0 Receptacle Connector 5 Position Surface Mount, Right Angle; Through Hole	CONN_USB_8MM0_6MM6
J8, J9	2		61300311121	Würth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
L1, L7.1, L7.2, L8.1, L8.2, L9	6	600 ohm	7427927291	Würth Elektronik	Ferrite Bead, 600 ohm @ 100 MHz, 0.3 A, 0402	0402
L2, L3	2	120 ohm	74279271	Würth Elektronik	Ferrite Bead, 120 ohm @ 100 MHz, 0.5 A, 0402	0402
L4	1	6.8 µH	74438367068	Würth Elektronik	WE-MAPI SMT Power Inductor, size 5030, 6.8µH, 4.3A, 48.3mOhm	
L5	1	1 µH	74438336010	Würth Elektronik	WE-MAPI SMT Power Inductor, size 3020, 1µH, 4A, 32mOhm	
L6	1		7448031002	Würth Electronics	2 mH @ 10 kHz 2 Line Common Mode Choke Through Hole 10A DCR 6mOhm	PTH4_23MM0_17MM0
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8	8	60V	CSD18543Q3A	Texas Instruments	MOSFET, N-CH, 60 V, 35 A, DNH0008A (VSONP-8)	DNH0008A
Q9, Q10	2	60V	CSD18531Q5A	Texas Instruments	MOSFET, N-CH, 60 V, 100 A, DQJ0008A (VSONP-8)	DQJ0008A
Q11	1	45 V	BC847BW,115	NXP Semiconductor	Transistor, NPN, 45 V, 0.1 A, AEC-Q101, SOT-323	SOT-323

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R1.1, R1.2, R1.3, R1.4, R1.5, R1.6, R1.7, R1.8, R27, R28, R30, R33, R34, R35, R37, R85, R88, R99, R101, R107, R108, R109, R110, R111, R112, R117, R125, R137, R139	29	0	CRCW04020000Z0EDC	Vishay	Jumper 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) - Thick Film	0402
R2.1, R2.2, R2.3, R2.4, R2.5, R2.6, R2.7, R2.8, R29, R42, R43, R63, R64, R89, R90, R91, R92, R94, R95, R96, R97, R100, R113, R141, R144, R145, R146, R147, R148, R149, R150, R164.1, R164.2, R189.1, R189.2, R208	36	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R32, R36, R61, R83, R123, R143, R197, R198, R199, R200, R206	27	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R19, R20, R21, R22, R23, R24, R25, R26, R138, R140, R142, R195, R207	13	3.3k	CRCW04023K30JNED	Vishay-Dale	RES, 3.3 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R31	1	13.3k	CRCW040213K3FKED	Vishay-Dale	RES, 13.3 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R38	1	23.7k	CRCW040223K7FKED	Vishay-Dale	RES, 23.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R39, R40, R118, R119, R120	5	33	CRCW040233R0JNED	Vishay-Dale	RES, 33, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R41	1	2.2k	CRCW04022K20JNED	Vishay-Dale	RES, 2.2 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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R44, R45, R47, R48, R49, R50, R51, R65, R66, R68, R69, R70, R71, R72	14	49.9k	RC0201FR-7D49K9L	Yageo America	RES, 49.9 k, 1%, 0.05 W, 0201	0201
R46, R67	2	4.7k	RC0201JR-7D4K7L	Yageo America	RES, 4.7 k, 5%, 0.05 W, 0201	0201
R52, R53, R54, R55, R56, R57, R58, R59, R60, R74, R75, R76, R77, R78, R79, R80, R81, R82	18	22	RC0201JR-7D22RL	Yageo America	RES, 22, 5%, 0.05 W, 0201	0201
R62, R84, R121, R122, R127, R128, R129, R130, R134	9	100k	RC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, 0402	0402
R86, R114, R115	3	0	CRCW02010000Z0ED	Vishay-Dale	RES, 0, 5%, 0.05 W, 0201	0201
R93	1	68	CRCW040268R0JNED	Vishay-Dale	RES, 68, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R124	1	31.6k	CRCW040231K6FKED	Vishay-Dale	RES, 31.6 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R126	1	107k	CRCW0402107KFKED	Vishay-Dale	RES, 107 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R132	1	3.92k	CRCW04023K92FKED	Vishay-Dale	RES, 3.92 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R133	1	7.50k	CRCW04027K50FKED	Vishay-Dale	RES, 7.50 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R135	1	8.87k	CRCW04028K87FKED	Vishay-Dale	RES, 8.87 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R136	1	68k	CRCW040268K0JNED	Vishay-Dale	RES, 68 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R151, R152, R153, R154, R203, R204, R205, R212	8	22	CRCW040222R0JNED	Vishay-Dale	RES, 22, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R163.1, R163.2	2	6.49k	CRCW04026K49FKED	Vishay-Dale	RES, 6.49 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R167.1, R167.2, R168.2, R171.1, R171.2, R172.1, R172.2	7	2.49k	CRCW04022K49FKED	Vishay-Dale	RES, 2.49 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R176.1, R176.2	2	1.50k	CRCW04021K50FKED	Vishay-Dale	RES, 1.50 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R191.1, R191.2, R192.1, R192.2	4	220	CRCW0603220RJNEA	Vishay-Dale	RES, 220, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R193.1, R193.2	2	1.0Meg	CRCW20101M00JNEF	Vishay-Dale	RES, 1.0 M, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R194	1	52.3k	CRCW040252K3FKED	Vishay-Dale	RES, 52.3 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R196	1	30.0k	CRCW040230K0FKED	Vishay-Dale	RES, 30.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R201	1	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R210	1	4.87k	CRCW04024K87FKED	Vishay-Dale	RES, 4.87 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R211	1	51	CRCW040251R0JNED	Vishay-Dale	RES, 51, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R213	1	8.2k	CRCW06038K20JNEA	Vishay-Dale	RES, 8.2 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
S1	1		434153017835	Würth Elektronik	Switch, SPST, Off-Mom, 0.05 A, 12 VDC, SMD	3.5x2.9mm
SW1	1		416131160804	Würth	Dip Switch SPST 4 Position Surface Mount Slide (Standard) Actuator 25mA 24VDC	SMT_SW
SW2	1		434351045816	Würth Electronics	Tactile Switch SPST-NO Side Actuated Surface Mount, Right Angle	SMT_SW_4MM7_4M M5

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TP3, TP4, TP5	3		5006	Keystone Electronics	Test Point, Compact, Black, TH	Black Compact Testpoint
U1.1, U1.2, U1.3, U1.4, U1.5, U1.6, U1.7, U1.8	8		TIOL221RGE	Texas Instruments	Dual Channel IO-Link Device PHY with Integrated LDO and SPI Interface	VQFN24
U2	1		SN74LVC1G125DCKR	Texas Instruments	Single Bus Buffer Gate With 3-State Outputs, DCK0005A, LARGE T&R	DCK0005A
U3, U4, U6, U8, U9	5		SN74HCS594DYR	Texas Instruments	Eight-bit shift registers with Schmitt-trigger inputs and with output registers	SOT-23-THN16
U5	1		SN74HCS165DYR	Texas Instruments	Counter Shift Registers 8-bit parallel-load shift registers with Schmitt-trigger inputs	SOT-23-THN
U7	1		SN74LVC1G14DCKR	Texas Instruments	Single Schmitt-Trigger Inverter, DCK0005A (SOT-SC70-5)	DCK0005A
U10, U11	2		TPS274C65AS	Texas Instruments	65-mΩ, Quad-Channel Smart High-Side Switch with SPI interface and Diagnostics	VQFN40
U12	1		AM2612AOFFHIZFGR	Texas Instruments	ARM® Cortex®-R5F Sitara™ Microcontroller IC 32-Bit Dual-Core 500MHz 512KB (512K x 8) Tightly Coupled Memory (TCM) 304-NFBGA (13.25x13.25)	NFBGA304
U13	1		MX25LM51245GXDI00	Macronix International Co., LT	3V 512M-BIT [x 1/x 8] CMOS MXSMIO(R)(SERIAL MULTI I/O)FLASH MEMORY, BGA-24	BGA-24
U14	1		APS12808L-3OBM-BA	AP Memory	DRAM IoT RAM 128Mb OPI (x8) DDR 133MHz, 3V, Ind. Temp., BGA24	BGA24
U15	1		SN74HCS125DYR	Texas Instruments	Schmitt-trigger inputs quadruple bus buffer gates with 3-state outputs 14-SOT-23-THIN -40 to 125	SOT-23-THIN14
U16, U21	2		SN74LVC1G17DCKR	Texas Instruments	Single Schmitt-Trigger Buffer, DCK0005A, LARGE T&R	DCK0005A
U17, U18, U26.1, U26.2	4		SN74AHC1G09DBVR	Texas Instruments	Single 2-Input Positive-AND Gate with Open Drain Output, DBV0005A (SOT-23-5)	DBV0005A
U19.1, U19.2	2		DP83826A	Texas Instruments	Deterministic, Low-Latency, Low-Power, 10/100 Mbps, Industrial Ethernet PHY	VQFN-32
U20	1		SN74LVC1G08DBVR	Texas Instruments	Single 2-Input Positive-AND Gate, DBV0005A, LARGE T&R	DBV0005A
U22	1		LMK3C0105V33RERR	Texas Instruments	5 output reference-less clock generator with bulk acoustic wave (BAW) 16-TQFN -40 to 85	TQFN16
U23	1		LMR51425FNDRRR	Texas Instruments	4-V to 36-V, 5-A Synchronous Step-Down DC/DC Converter with Low IQ	WSO12
U24	1		TPS62A03ADRLR	Texas Instruments	3-A, High-Efficiency, Synchronous Buck Converter in a SOT563 Package	SOT563
U25	1		LM74502DDF	Texas Instruments	Low IQ High Side Switch Controller With Reverse Polarity and Overvoltage Protection	SOT23-8
U27.1, U27.2	2		ESD204DQAR	Texas Instruments	ESD204, DQA0010A (USON-10)	DQA0010A
U28	1		24AA256-I/ST	Microchip	256K I2C™ CMOS Serial EEPROM, TSSOP-8	TSSOP-8
U29	1		TPS7A3701DRVR	Texas Instruments	1% High-Accuracy, 1-A, Low-Dropout Regulator with Reverse Current Protection, DRV0006A (WSO6)	DRV0006A
U30	1		MSP432E401YTPDT	Texas Instruments	MSP432E401YTPDT, PDT0128A (TQFP-128)	PDT0128A
U31.1, U31.2, U31.3, U31.4, U31.5, U31.6, U31.7, U31.8, U32.1, U32.2, U32.3, U32.4, U32.5, U32.6, U32.7, U32.8	16		TVS3300DRVR	Texas Instruments	33-V Precision Surge Protection Clamp, DRV0006A (WSO6)	DRV0006A

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U33.1, U33.2, U33.3, U33.4, U33.5, U33.6, U33.7, U33.8, U34.1, U34.2, U34.3, U34.4, U34.5, U34.6, U34.7, U34.8	16		TSM36ADBZR	Texas Instruments	Surge Protection Device in SOT-23 Package	SOT23-3
Y1	1		830064296	Wurth	Crystal 16 MHz ±20ppm Crystal 8pF 70 Ohms 4-SMD, No Lead	SMT4_3MM4_2MM7
C119	0	27pF	GRM1555C1E270JA01D	MuRata	CAP, CERM, 27 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
C127.1, C127.2	0	4.7pF	GRM1555C1H4R7WA01D	MuRata	CAP, CERM, 4.7 pF, 50 V, +/- 1%, C0G/NP0, 0402	0402
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
R73, R87, R98, R102, R103, R104, R105, R106, R155, R156, R157, R158, R159, R160, R161, R162	0	0	CRCW04020000Z0EDC	Vishay	Jumper 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) - Thick Film	0402
R131	0	100k	RC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, 0402	0402
R166.1, R166.2, R168.1	0	2.49k	CRCW04022K49FKED	Vishay-Dale	RES, 2.49 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R177.1, R177.2, R178.1, R178.2, R181.1, R181.2, R182.1, R182.2	0	1.50k	CRCW04021K50FKED	Vishay-Dale	RES, 1.50 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R190.1, R190.2, R209	0	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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RV1.1, RV1.2, RV1.3, RV1.4, RV1.5, RV1.6, RV1.7, RV1.8, RV2.1, RV2.2, RV2.3, RV2.4, RV2.5, RV2.6, RV2.7, RV2.8, RV3.1, RV3.2, RV3.3, RV3.4, RV3.5, RV3.6, RV3.7, RV3.8, RV4.1, RV4.2, RV4.3, RV4.4, RV4.5, RV4.6, RV4.7, RV4.8, RV5.1, RV5.2, RV5.3, RV5.4, RV5.5, RV5.6, RV5.7, RV5.8, RV6.1, RV6.2, RV6.3, RV6.4, RV6.5, RV6.6, RV6.7, RV6.8	0	30V	82556300	Wurth Elektronik	WE-VS SMT Varistor, size 0603, 30VAC, 38VDC	

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