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TIDA-01399 REV E1 Bill of Materials



1	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageRefere
	IPCB1	1		TIDA-01399	Any	Printed Circuit Board	
2	C1, C3	2	1.5uF	B32522C3155K	EPCOS	CAP, Film, 1.5uF, 160VAC, 250VDC, 10%, Radial	
3	C2	1	220uF	UPW2A221MHD	Nichicon	CAP, AL, 220µF, 100V, +/- 20%, Radial	
4	C4	1	470uF	UPW2A221MHD	Nichicon	CAP, AL, 470µF, 50V, +/- 20%, Radial	
5	C5	1	10uF	C3216X7R1E106M160AE	TDK	CAP, CERM, 10 µF, 25 V, +/- 20%, X7R, 1206_190	1206_190
6	C6, C9	2	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0603	0603
7	C7, C8	2	1uF	GRM188R71C105KA12D	MuRata	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
8	C10	1	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
9	C11	1	4.7uF	GRM21BR71C475KA73L	MuRata	CAP, CERM, 4.7 µF, 16 V, +/- 10%, X7R, 0805	0805
10	C12	1	1000uF	UPW1E102MHD	Nichicon	CAP, AL, 1000µF, 25V, +/- 20%, Radial	
11	C13	1	10uF	0805YD106KAT2A	AVX	CAP, CERM, 10 µF, 16 V, +/- 10%, X5R, 0805	0805
12 13	C14 D1, D2, D3, D4,	1 106	2200uF	UPW1C222MHD SPMWHT328FD5WAU0S0	Nichicon Samsung Semiconductor,	CAP, AL, 2200µF, 16V, +/- 20%, Radial LED, White, 3500K, 80 CRI, SMD	2-SMD, No Lead
	D13, D14, D15, D18, D19, D20, D21, D22, D23, D24, D25, D26, D26, D28, D26, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D40, D41, D42, D43, D44, D45, D48, D49, D50, D51, D52, D56, D57, D58, D56, D57, D77, D78, D79, D80, D41, D82, D83, D84, D85, D86, D87, D88, D89, D80, D91, D92, D33, D94, D85, D34, D95, D96,						
14	D100, D101, D102, D103, D8, D69, D98, D109	4	200V	ES1D-13-F	Diodes Inc.	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
15 16	D16, D17, D46, D47 D106	4	1000V 100V	CGRM4007-G MMSD4148T1G	Comchip Technology ON Semiconductor	Diode, P-N, 1000V, 1A, 3.9x1.7x1.8mm Diode, Switching, 100 V, 0.2 A, SOD-123	3.9x1.7x1.8mm SOD-123
17	F1	1	1007	RST 2	Bel Fuse	Fuse, 2 A, 250VAC/VDC, TH	8.35x7.7x4mm
18	H1	1		530002B02500G	Aavid	Heat Sink, TO-220, Vertical	HEATSINK TO-22
19	H2			HAMF10T	TDK-Lambda Americas Inc	HEATSINK PFE1000F	TILATSINK TO-22
				1715721	Phoenix Contact	Terminal Block, 5.08 mm, 2x1, TH	2POS Terminal B
20	J1	1		-			21 00 Terminar D
	J1 Q1			AOT11S60L	Alpha & Omega Semiconductor Inc.	MOSFET, N-CH, xxV, xxxA, [PackageReference]	TO-220-3
20		1	0.25		Alpha & Omega Semiconductor Inc. Stackpole Electronics Inc.	MOSFET, N-CH, xxV, xxXA, [PackageReference] RES, 0.25 ohm, 1%, 0.25W, 0805	TO-220-3
20 21 22	Q1 R1, R8, R17, R31	1 1 4		AOT11S60L CSR0805FKR250	Semiconductor Inc. Stackpole Electronics Inc.	RES, 0.25 ohm, 1%, 0.25W, 0805	TO-220-3 0805 (2012 Metric
20 21	Q1	1	0.25 1.50Meg 806k	AOT11S60L	Semiconductor Inc.		TO-220-3
20 21 22 23	Q1 R1, R8, R17, R31 R6 R7, R13, R26,	1 1 4 1	1.50Meg	AOT11S60L CSR0805FKR250 CRCW08051M50FKEA	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 k, 1%, 0.25 W, 1206	TO-220-3 0805 (2012 Metric 0805
20 21 22 23 24 25	Q1 R1, R8, R17, R31 R6 R7, R13, R26, R33 R9	1 1 4 1 4 1	1.50Meg 806k 1.40Meg	AOT11S60L CSR0805FKR250 CRCW08051M50FKEA CRCW1206806KFKEA CRCW08051M40FKEA	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 k, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805	TO-220-3 0805 (2012 Metric 0805 1206 0805
20 21 22 23 24 25 26	Q1 R1, R8, R17, R31 R6 R7, R13, R26, R33 R9 R10, R14	1 1 4 1 4 1 2	1.50Meg 806k 1.40Meg 1.00Meg	AOT11S60L CSR0805FKR250 CRCW08051M50FKEA CRCW1206806KFKEA CRCW08051M40FKEA CRCW12061M00FKEA	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 k, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.00 M, 1%, 0.25 W, 1206	TO-220-3 0805 (2012 Metric 0805 1206 0805 1206
20 21 22 23 24 25 26 27	Q1 R1, R8, R17, R31 R6 R7, R13, R26, R33 R9 R10, R14 R10, R14 R11, R12	1 1 4 1 4 1 2 2	1.50Meg 806k 1.40Meg 1.00Meg 2.00Meg	AOT11S60L CSR0805FKR250 CRCW0805TM50FKEA CRCW1206806KFKEA CRCW08051M40FKEA CRCW12061M00FKEA CRCW12061M00FKEA	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 k, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.40 M, 1%, 0.125 W, 1206 RES, 2.00 M, 1%, 0.125 W, 0805	TO-220-3 0805 (2012 Metric 0805 1206 0805 1206 0805
20 21 22 23 24 25 26 27 28	Q1 R1, R8, R17, R31 R6 R7, R13, R26, R33 R9 R10, R14 R11, R12 R15	1 1 4 1 4 1 2 2 1	1.50Meg 806k 1.40Meg 1.00Meg 2.00Meg 200k	AOT11S60L CSR0805FKR250 CRCW08051M50FKEA CRCW1206806KFKEA CRCW12061M00FKEA CRCW12061M00FKEA CRCW08052M00FKEA CRCW0805200KFKEA	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 k, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.00 M, 1%, 0.25 W, 1206 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.125 W, 0603	TO-220-3 0805 (2012 Metric 0805 1206 0805 1206 0805 0603
20 21 22 23 24 25 26 27	Q1 R1, R8, R17, R31 R6 R7, R13, R26, R33 R9 R10, R14 R10, R14 R11, R12	1 1 4 1 4 1 2 2	1.50Meg 806k 1.40Meg 1.00Meg 2.00Meg	AOT11S60L CSR0805FKR250 CRCW0805TM50FKEA CRCW1206806KFKEA CRCW08051M40FKEA CRCW12061M00FKEA CRCW12061M00FKEA	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 k, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.40 M, 1%, 0.125 W, 1206 RES, 2.00 M, 1%, 0.125 W, 0805	TO-220-3 0805 (2012 Metric 0805 1206 0805 1206 0805
20 21 22 23 24 25 26 27 28 29 30	Q1 R1, R8, R17, R31 R6 R7, R13, R26, R33 R10, R14 R11, R12 R15 R16 R18, R22, R24, R25, R27, R29	1 1 4 1 4 1 2 2 1 1	1.50Meg 806k 1.40Meg 1.00Meg 2.00Meg 200k 10.0 18.2	AOT11S60L CSR0805FKR250 CRCW08051M50FKEA CRCW1206806KFKEA CRCW12061M00FKEA CRCW08052M00FKEA CRCW0805200KFKEA CRCW060310R0FKEA CRCW060310R0FKEA CRCW120618R2FKEA	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 k, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.00 M, 1%, 0.25 W, 1206 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.125 W, 0803 RES, 10.0, 1%, 0.1 W, 0603 RES, 10.0, 1%, 0.25 W, 1206	TO-220-3 TO-220-3 0805 (2012 Metric 0805 1206 0805 1206 0603 0603 1206
20 21 22 23 24 25 26 27 28 29 30 31	Q1 R1, R8, R17, R31 R6 R7, R13, R26, R33 R9 R10, R14 R11, R12 R15 R15 R15 R15 R16 R18, R22, R24, R25, R27, R29 R19, R23	1 1 4 1 4 1 2 2 1 1 6 2	1.50Meg 806k 1.40Meg 2.00Meg 200k 10.0 18.2 30.1k	AOT11S60L CSR0805FKR250 CRCW1805TM50FKEA CRCW1206806KFKEA CRCW12061M00FKEA CRCW12061M00FKEA CRCW0805200KFKEA CRCW0603200KFKEA CRCW120618R2FKEA CRCW120618R2FKEA CRCW060330K1FKEA	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 K, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.40 M, 1%, 0.25 W, 1206 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.14 W, 0603 RES, 10.0, 1%, 0.15 W, 0803 RES, 18.2, 1%, 0.25 W, 1206 RES, 30.1 K, 1%, 0.1 W, 0603	TC-220-3 0805 (2012 Metric 0805 1206 0805 1206 0805 0603 1206 0603 1206 0603 0603
20 21 22 23 24 25 26 27 28 29 30	Q1 R1, R8, R17, R31 R6 R7, R13, R26, R33 R10, R14 R11, R12 R15 R16 R18, R22, R24, R25, R27, R29	1 4 1 4 1 2 2 1 1 6	1.50Meg 806k 1.40Meg 1.00Meg 2.00Meg 200k 10.0 18.2	AOT11S60L CSR0805FKR250 CRCW08051M50FKEA CRCW1206806KFKEA CRCW12061M00FKEA CRCW08052M00FKEA CRCW0805200KFKEA CRCW060310R0FKEA CRCW060310R0FKEA CRCW120618R2FKEA	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 k, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.00 M, 1%, 0.25 W, 1206 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.125 W, 0803 RES, 10.0, 1%, 0.1 W, 0603 RES, 10.0, 1%, 0.25 W, 1206	TO-220-3 0805 (2012 Metrid 0805 1206 0805 1206 0805 0603 0603 1206 0603 0603 0603 0603 0206 0603 0206 0603
20 21 22 23 24 25 26 27 28 29 30 31	Q1 R1, R8, R17, R31 R6 R7, R13, R26, R33 R9 R10, R14 R11, R12 R15 R15 R15 R15 R16 R18, R22, R24, R25, R27, R29 R19, R23	1 1 4 1 4 1 2 2 1 1 6 2	1.50Meg 806k 1.40Meg 2.00Meg 200k 10.0 18.2 30.1k	AOT11S60L CSR0805FKR250 CRCW1805TM50FKEA CRCW1206806KFKEA CRCW12061M00FKEA CRCW12061M00FKEA CRCW0805200KFKEA CRCW0603200KFKEA CRCW120618R2FKEA CRCW120618R2FKEA CRCW060330K1FKEA	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 K, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.40 M, 1%, 0.25 W, 1206 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.14 W, 0603 RES, 10.0, 1%, 0.15 W, 0803 RES, 18.2, 1%, 0.25 W, 1206 RES, 30.1 K, 1%, 0.1 W, 0603	TO-220-3 0805 (2012 Metrii 0805 1206 0805 1206 0805 1206 0603 1206 0603 1206 0603 Used in PnP outp and some BOM
20 21 22 23 24 25 26 27 28 29 30 31 32	Q1 R1, R8, R17, R31 R6 R7, R13, R26, R33 R10, R14 R15, R14 R15, R14 R15, R16, R22, R24, R25, R27, R29 R19, R23 R20	1 1 4 1 2 2 1 1 6 2 1	1.50Meg 806k 1.40Meg 2.00Meg 2.00Meg 200k 10.0 18.2 30.1k DNP	AOT11S60L CSR0805FKR250 CRCW08051M50FKEA CRCW1206806KFKEA CRCW12061M00FKEA CRCW0805200KFKEA CRCW0803200KFKEA CRCW0603200KFKEA CRCW060330K1FKEA CRCW060330K1FKEA DNP	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Used in BOM report	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 k, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.00 M, 1%, 0.125 W, 0805 RES, 2.00 k, 1%, 0.1 W, 0603 RES, 182, 1%, 0.25 W, 1206 RES, 182, 1%, 0.25 W, 1206 RES, 30.1 k, 1%, 0.1 W, 0603 DNP	TO-220-3 0805 (2012 Metrid 0805 1206 0805 1206 0805 0603 0603 1206 0603 1206 0603 1206 0603 Used in PnP outp and some BOM reports
20 21 22 23 24 25 26 27 28 29 30 31 32 33	Q1 R1, R8, R17, R31 R6 R33 R9 R10, R14 R11, R12 R15 R16 R18, R22, R24, R25, R27, R29 R19, R23 R20 R21	1 1 4 1 2 1 1 6 2 1 1 1 1	1.50Meg 806k 1.40Meg 2.00Meg 2.00Meg 200k 10.0 18.2 30.1k DNP 1.24Meg	AOT11S60L CSR0805FKR250 CRCW1805TM50FKEA CRCW1208806KFKEA CRCW180605H40FKEA CRCW08052M00FKEA CRCW08052000FKEA CRCW08052000FKEA CRCW120618R2FKEA CRCW120618R2FKEA CRCW060330K1FKEA DNP CRCW08051M24FKEA	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Ushay-Dale Ushay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 k, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.00 M, 1%, 0.25 W, 1206 RES, 200 M, 1%, 0.126 W, 0803 RES, 200 K, 1%, 0.126 W, 0803 RES, 10.0 M, 1%, 0.1 W, 0603 RES, 13.2 1%, 0.25 W, 1206 RES, 30.1 k, 1%, 0.1 W, 0603 DNP RES, 1.24 M, 1%, 0.125 W, 0805	TO-220-3 TO-220-3 0805 (2012 Metrid 0805 1206 0805 1206 0603 0603 0603 0603 0603 0603 0603 Used in PnP outp and some BOM reports 0805
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	Q1 R1, R8, R17, R31 R6 R7, R13, R26, R33 R9 R10, R14 R11, R12 R15 R16 R18, R22, R24, R25, R27, R29 R19, R23 R20 R21 R22 R21 R22	1 1 4 1 2 2 1 1 6 2 1 1 1 1 1	1.50Meg 806k 1.40Meg 2.00Meg 200k 10.0 18.2 30.1k DNP 1.24Meg 54.9k	AOT11S60L CSR0805FKR250 CRCW1805TM50FKEA CRCW1206806KFKEA CRCW12061M00FKEA CRCW0805200KFKEA CRCW0803200KFKEA CRCW0603200KFKEA CRCW1206118R2FKEA CRCW060330K1FKEA DNP CRCW08051M24FKEA	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 k, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.1 W, 0603 RES, 100, 1%, 0.1 W, 0603 RES, 18.2, 1%, 0.25 W, 1206 RES, 30.1 k, 1%, 0.1 W, 0603 DNP RES, 1.24 M, 1%, 0.125 W, 0805 RES, 54.9 k, 1%, 0.1 W, 0603	TO-220-3 0805 (2012 Metrid) 0805 1206 0805 1206 0805 0603 1206 0603 1206 0603 1206 0603 1206 0603 0603 1206 0603 0603 0605 06603
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	Q1 R1, R8, R17, R31 R6 R7, R13, R26, R33 R10, R14 R15 R16, R14 R15, R12 R15, R12, R24, R25, R27, R29 R19, R23 R20 R21 R28 R30	1 1 4 1 2 2 2 1 1 6 2 1 1 1 1 1 1	1.50Meg 806k 1.40Meg 2.00Meg 2.00Meg 200k 10.0 18.2 30.1k DNP 1.24Meg 54.9k 121k	AOT11S60L CSR0805FKR250 CRCW08051M50FKEA CRCW1206806KFKEA CRCW12061M00FKEA CRCW08052006FKEA CRCW08052006FKEA CRCW080310R0FKEA CRCW080310R0FKEA CRCW08031M24FKEA CRCW080354M9FKEA CRCW0803121KFKEA	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Ushay-Dale Ushay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 k, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.00 M, 1%, 0.25 W, 1206 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.125 W, 0803 RES, 10.00 M, 1%, 0.14W, 0603 RES, 10.0, 1%, 0.1 W, 0603 RES, 10.0, 1%, 0.1 W, 0603 RES, 30.1 k, 1%, 0.1 W, 0603 RES, 10.2 K, 1%, 0.1 W, 0603 RES, 1.24 M, 1%, 0.125 W, 0805 RES, 54.9 k, 1%, 0.1 W, 0603 RES, 1.24 M, 1%, 0.125 W, 0805 RES, 54.9 k, 1%, 0.1 W, 0603 RES, 1.24 M, 1%, 0.156 W, 0805 RES, 1.24 M, 1%, 0.185 W, 0805 RES, 1.24 M, 1%, 0.185 W, 0805 RES, 1.24 M, 1%, 0.185 W, 0805	TO-220-3 TO-220-3 0805 (2012 Metrid 0805 1206 0805 0603 0603 1206 0603 1206 0603 1206 0603 1206 0603 1206 0603 060
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	Q1 R1, R8, R17, R31 R6 R33 R9 R10, R14 R15, R12, R24, R16, R14, R22, R24, R25, R22, R24, R25, R22, R24, R20 R21 R28 R30 R32 R30 R32	1 1 4 1 2 2 1 1 6 2 1 1 1 1 1 1 1	1.50Meg 806k 1.40Meg 1.00Meg 2.00Meg 200k 10.0 18.2 30.1k DNP 1.24Meg 54.9k 121k 976k	AOT11S60L CSR0805FKR250 CRCW0805TM50FKEA CRCW1206806KFKEA CRCW12061M00FKEA CRCW08052M00FKEA CRCW08052000FKEA CRCW08052000FKEA CRCW060330K1FKEA CRCW060330K1FKEA CRCW08051M24FKEA CRCW08051M24FKEA CRCW08051421FKEA CRCW080518FKEA	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 k, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.00 M, 1%, 0.25 W, 1206 RES, 200 k, 1%, 0.125 W, 0805 RES, 200 k, 1%, 0.125 W, 0805 RES, 10.0 M, 1%, 0.12 W, 0803 RES, 10.0 M, 1%, 0.1 W, 0603 RES, 10.0 M, 1%, 0.1 W, 0603 RES, 30.1 k, 1%, 0.1 W, 0603 DNP RES, 1.24 M, 1%, 0.125 W, 0805 RES, 54.9 k, 1%, 0.1 W, 0603 RES, 1.24 M, 1%, 0.125 W, 0805 RES, 54.9 k, 1%, 0.1 W, 0603 RES, 1.24 M, 1%, 0.1 W, 0603 RES, 976 K, 1%, 0.0 LW, 0603 RES, 976 K, 1%, 0.0 LW, 0603 RES, 976 K, 1%, 0.0 LW, 0603	TO-220-3 0805 (2012 Metric) 0805 1206 0805 1206 0805 0603 1206 0603 1206 0603 0603 0603 0805 0603 0805 0603 0603 0805 0603 0603
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20 21 22 23 24 25 26 27 28 29 30 31 32 33 33 34 35 36 37	Q1 R1, R8, R17, R31 R6 R7, R13, R26, R33 R10, R14 R11, R12 R15 R16, R22, R24, R25, R27, R29 R19, R23 R20 R21 R22 R30 R32 R34 RECT-AC1, IP1, IP2, IP3, IP4, IP9, IP10, IP14, IP9, IP10, IP14, IP13, IP14,	1 4 1 4 1 2 2 1 1 6 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1.50Meg 806k 1.40Meg 1.00Meg 2.00Meg 200k 10.0 18.2 30.1k DNP 1.24Meg 54.9k 121k 976k	AOT11S60L CSR0805FKR250 CRCW08051M50FKEA CRCW1206806KFKEA CRCW12061M00FKEA CRCW0805200KFKEA CRCW0805200KFKEA CRCW0800310R0FKEA CRCW120618R2FKEA CRCW0800310K1FKEA CRCW080051M24FKEA CRCW08051M24FKEA CRCW0805376KFKEA CRCW0805976KFKEA CRCW0805976KFKEA CRCW0805976KFKEA	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 k, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 10.0, 1%, 0.1 W, 0603 RES, 10.0, 1%, 0.1 W, 0603 RES, 10.1 k, 1%, 0.1 W, 0603 RES, 54.9 k, 1%, 0.1 W, 0603 RES, 54.9 k, 1%, 0.1 W, 0603 RES, 54.9 k, 1%, 0.1 W, 0603 RES, 124 M, 1%, 0.125 W, 0805 RES, 54.9 k, 1%, 0.1 W, 0603 RES, 54.9 k, 1%, 0.1 W, 0603 RES, 124 K, 1%, 0.1 W, 0603 RES, 54.9 k, 1%, 0.1 W, 0603	TC-220-3 TC-220-3 O805 (2012 Metric) 0805 1206 0805 1206 0805 0603 0603 1206 0603 Used in PnP outp and some BOM reports 0805 0603 0603 0603 0603 0603 0603 0603 06
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20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	Q1 Q1 R1, R8, R17, R31 R6 R7, R13, R26, R33 R9 R10, R14 R15 R16 R18, R22, R24, R25, R27, R29 R19, R23 R20 R21 R22 R30 R21 R22 R30 R30 R30 R32 R30 R31 R4 R5 R32 R30 R32 R34 R5 R35 R35 R35 R35 R35 R35 R35	1 4 1 2 2 1 1 6 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1.50Meg 806k 1.40Meg 1.00Meg 200k 2.00Meg 200k 10.0 18.2 30.1k DNP 1.24Meg 54.9k 121k 976k DNP	AOT11S60L CSR0805FKR250 CRCW1805TM50FKEA CRCW1206806KFKEA CRCW12061M00FKEA CRCW0805200KFKEA CRCW0805200KFKEA CRCW080300R0FKEA CRCW1206118R2FKEA CRCW12061382FKEA CRCW08051M24FKEA CRCW080534K9FKEA CRCW0805396KFKEA DNP CRCW0805976KFKEA DNP 1502-2	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Keystone Keystone	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.25 W, 0805 RES, 806 k, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.40 M, 1%, 0.25 W, 1206 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.125 W, 0803 RES, 10.0, 1%, 0.1 W, 0603 RES, 10.0, 1%, 0.1 W, 0603 RES, 30.1 k, 1%, 0.1 W, 0603 DNP RES, 54.9 k, 1%, 0.1 W, 0603 RES, 576 k, 1%, 0.1 25 W, 0805 RES, 976 k, 1%, 0.1 25 W, 0805 DNP Terminal, Turret, TH, Double Thermistor NTC, 470k ohm, 3%, 0603	TO-220-3 TO-220-3 TO-220-3 TO-220-3 T206 0805 1206 0805 1206 0603 1206 0603 1206 0603 1206 0603 1206 0603 1206 C603 0603 C603 C603 C603 C603 C603 C6
20 21 22 23 24 25 26 27 27 28 29 30 31 32 33 34 35 36 37 38 39 40	Q1 R1, R8, R17, R31 R6 R7, R13, R26, R33 R9 R10, R14 R15, R12, R24, R16, R14, R22, R24, R25, R27, R29 R19, R23 R20 R21 R28 R34 RECT-AC1, TP1, TP5, TP6, TP8, TP9, TP10, TP12, TP13, TP14, TP5, TP6, TP8, TP15, RT14, RV1	1 4 1 2 2 1 1 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1	1.50Meg 806k 1.40Meg 1.00Meg 200k 2.00Meg 200k 10.0 18.2 30.1k DNP 1.24Meg 54.9k 121k 976k DNP	AOT11S60L CSR0805FKR250 CRCW0805TM50FKEA CRCW1208806KFKEA CRCW1208006KFKEA CRCW12061M00FKEA CRCW08052000FKEA CRCW06032001FKEA CRCW060330K1FKEA CRCW060330K1FKEA CRCW060330K1FKEA CRCW060330K1FKEA CRCW060330K1FKEA CRCW060330K1FKEA CRCW060331M24FKEA CRCW060331K1FKEA CRCW0603976KFKEA DNP 1502-2	Semiconductor Inc. Stackpole Electronics Inc. Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Vishay-Dale Used In BOM report Vishay-Dale	RES, 0.25 ohm, 1%, 0.25W, 0805 RES, 1.50 M, 1%, 0.125 W, 0805 RES, 806 k, 1%, 0.25 W, 1206 RES, 1.40 M, 1%, 0.125 W, 0805 RES, 1.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.125 W, 0805 RES, 2.00 M, 1%, 0.126 W, 0803 RES, 1.00 M, 1%, 0.126 W, 0803 RES, 1.00 M, 1%, 0.126 W, 0803 RES, 10.0 K, 1%, 0.1 W, 0603 RES, 10.1 k, 1%, 0.1 W, 0603 DNP RES, 1.24 M, 1%, 0.125 W, 0805 RES, 1.24 M, 1%, 0.1 W, 0603 RES, 54.9 k, 1%, 0.0 1 W, 0603 RES, 54.9 k, 1%, 0.0 1 W, 0603 RES, 124 M, 1%, 0.125 W, 0805 DNP Terminal, Turret, TH, Double Thermistor NTC, 470k ohm, 3%, 0603 Thermistor NTC, 470k ohm, 3%, 0603	TO-220-3 0805 (2012 Metric) 0805 1206 0805 1206 0603 1206 0603 1206 0603 1206 0603 1206 0603 0805 1206 0603 0805 1206 0603 0805 1206 0603 0805 1206 0603 0805 1206 0603 0603 0603 0603 0603 0603 0603 0603 0603 0603 0603
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