Filename: TIDA-010076\_BOM.xls Variant: 001 Generatec 06/03/2020 TID #: TIDA-010076

## TIDA-010076 REV E1 Bill of Materials



ITE		EFERENCE DESIGNATOR	QUANTITY	VALUE	PART NUMBER	MANUFACTURER		PACKAGE- REFERENCE	ABILIT (DIGI-	(GREEN OFT)	S LEAD FREE STATUS	LEAD FREE STATUS (GREENSOFT)	REACH STATUS (DIGI-KEY)	REACH STATUS (GREENSOFT)	REACH EFFECTIVE DATE (DIGI-KEY)	DESCRIPTION (DIGI-KEY)		R MANUFACTURER PART NUMBER (DIGI-KEY	DIGI-KEY PART NUMBER (DIGI-KEY)
1 2		PCB1 :1, C5, C71 F1, C71 F2	1	0 tuE	TIDA-010076 GCM155R71C104.IA55D	Any MuRata	Printed Circuit Board CAP, CERM, 0.1 µF, 16 V,+/- 5%, X7R, AFC-Q200 Grade 1, 0402	0402	Active YES	YES	I FAD FREE	LEAD ERFE		REACH NOT AFFECTED		CAP CER 0.1UF 16V X7R	Murata Electronio	s GCM155R71C104.IA55D	490-16433-1-ND
			2		293D106X9063E2TE3		CAP, TA, 10 uF, 63 V, +/- 10%, 1 ohm, SMD	3216-18	Active YES	YES	LEAD FREE	LEAD FREE		REACH NOT AFFECTED		CAP TANT 10UF 10% 63V		293D106X9063E2TE3	718-1712-1-ND
3			_	10uF		Vishay-Sprague	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R,			YES		LEAD FREE		AFFECTED		2917 CAP CER 0.1UF 16V X7R			
4		4, C29, C35, C36, C41, C42, C51	7	0.1uF	GCJ188R71C104KA01D	MuRata	0603 CAP, CERM, 0.022 uF, 100 V, +/- 10%,	0603	Active YES		LEAD FREE		REACH NOT			0603 CAP CER 0.022UF 250V		s GCJ188R71C104KA01D	490-5796-1-ND
5	C		1	0.022uF	GCJ21BR72E223KXJ3L	MuRata	X7R, 0805 CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R,	0805	Active YES		LEAD FREE		AFFECTED			X7R 0805 CAP CER 2.2UF 100V X7S	Murata Electronic	s GCJ21BR72E223KXJ3L	490-17741-1-ND
6	C	7 8, C55_P1, C55_P2, C60_P1,	1	2.2uF	GCM31CC72A225KE02L	MuRata	1206 190 CAP CERM 1 uE 25 V +/- 10% X7R	1206 190	Active YES		LEAD FREE			REACH NOT		1206 CAP CER 1UE 25V X7R	Murata Electronic	s GCM31CC72A225KE02L	490-14438-1-ND
7	Ċ	60 P2	5	1uF	GCM188R71E105KA64D	MuRata	AEC-Q200 Grade 1, 0603 CAP, CERM, 1 uF, 100 V, +/- 10%, X7R,	0603	Active YES	YES	LEAD FREE	LEAD FREE		AFFECTED		0603 CAP CER 1UF 100V X7R	Murata Electronic	s GCM188R71E105KA64D	490-10673-1-ND
8	C	9_F1, C9_F2	2	1uF	GCJ31CR72A105KA01L	MuRata	1206 CAP, CERM, 0.47 uF, 100 V, +/- 10%, X7R	1206	Active YES		LEAD FREE			REACH NOT		1206 CAP CER 0.47UF 100V	Murata Electronic	s GCJ31CR72A105KA01L	490-16468-1-ND
9	C	10_F1, C10_F2, C25	3	0.47uF	GRM21BR72A474KA73L	MuRata	0805	0805	Active YES	YES	LEAD FREE	LEAD FREE		AFFECTED		X7R 0805	Murata Electronic	s GRM21BR72A474KA73L	490-3326-1-ND
10	C	11_F1, C11_F2, C12_F1, C12_F2	4	4.7uF	GCM32DC72A475KE02L	MuRata	CAP, CERM, 4.7 uF, 100 V, +/- 10%, X7S, 1210	1210	Active YES		LEAD FREE					CAP CER 4.7UF 100V X7S 1210	Murata Electronic	s GCM32DC72A475KE02L	490-14484-1-ND
11	c	:13_F1, C13_F2	2	0.022uF	GRM155R71C223KA01D	MuRata	CAP, CERM, 0.022 uF, 16 V, +/- 10%, X7R 0402	0402	Active YES	YES	LEAD FREE	LEAD FREE		REACH NOT AFFECTED		CAP CER 0.022UF 16V X7R 0402	Murata Electronic	s GRM155R71C223KA01D	490-3256-1-ND
12	c	:14	1	2.2uF	GRM188R71A225KE15D	MuRata	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X7R, 0603	0603	Active YES	YES	LEAD FREE	LEAD FREE		REACH NOT AFFECTED		CAP CER 2.2UF 10V X7R 0603	Murata Electronic	s GRM188R71A225KE15D	490-4520-1-ND
13		:15	1	0.47uF	GCM188R71E474KA64D	MuRata	CAP, CERM, 0.47 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603	Active YES	YES	I FAD FREE	LEAD FREE		REACH NOT AFFECTED		CAP CER 0.47UF 25V X7R	1	s GCM188R71E474KA64D	490-4776-1-ND
14		16		4.7pF		AVX	CAP, CERM, 4.7 pF, 50 V, +/- 5%, C0G/NP0_0603	0603	Active YES	YES	LEAD FREE	LEAD FREE	REACH NOT AFFECTED	REACH NOT AFFECTED	.lan-2019	CAP CER 4.7PF 50V C0G/NP0 0603		06035A4R7CAT2A	478-1159-1-ND
		17 C18 C19 C27	1				CAP, TA, 10 uF, 35 V, +/- 10%, 0.3 ohm, SMD			YES			AFFECTED	REACH NOT	Jan-2019	CAP TANT 10UF 10% 35V			
15		,,,	4	10uF	593D106X9035D2TE3	Vishay-Sprague	CAP, CERM, 0.47 uF, 50 V, +/- 10%, X7R,	7343-31	Active YES		LEAD FREE	LEAD FREE		AFFECTED REACH NOT		2917 CAP CER 0.47UF 50V X7R		593D106X9035D2TE3	718-1099-1-ND
16	С	20	1	0.47uF	GRM21BR71H474KA88L	MuRata	0805 CAP, CERM, 10 μF, 50 V,+/- 10%, X7R,	0805	Active YES	YES	LEAD FREE	LEAD FREE		AFFECTED		0805 CAP CERAMIC 10UF 50V	Murata Electronic	s GRM21BR71H474KA88L	490-3328-1-ND
17	C	21, C22	2	10uF	GCJ32EC71H106KA01K	MuRata	1210 CAP, CERM, 4.7 µF, 100 V,+/- 10%, X7S,	1210	Active YES		LEAD					X7S 10% PAD CAP CER 4.7UF 100V X7S	Murata Electronic	s GCJ32EC71H106KA01K	490-18200-1-ND
18	C	23, C24	2	4.7uF	GCM32DC72A475KE02L	MuRata	AEC-Q200 Grade 1, 1210 CAP, CERM, 100 pF, 100 V, +/- 5%.	1210	Active YES		LEAD FREE			REACH NOT		1210 CAP CER 100PF 100V	Murata Electronic	s GCM32DC72A475KE02L	490-14484-1-ND
19	C	26	1	100pF	GCM1885C2A101JA16D	MuRata	COG/NP0, 0603 CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R.	0603	Active YES	YES	LEAD FREE	LEAD FREE		AFFECTED		COG/NP0 0603 CAP CER 4.7UF 50V X7R	Murata Electronic	s GCM1885C2A101JA16D	490-4771-1-ND
20	C	28	1	4.7uF	GCJ32ER71H475KA12L	MuRata	1210	1210	Active YES		LEAD FREE					1210	Murata Electronic	s GCJ32ER71H475KA12L	490-5850-1-ND
21	C	30, C31, C32, C33	4	22uF	GRM21BD71A226ME44L	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, X7R, 0805	0805	Active YES		LEAD FREE					CAP CER 22UF 10V X7T 0805	Murata Electronic	s GRM21BD71A226ME44L	490-9959-1-ND
22		34, C38, C40, C44, C47, C54_P1, 54 P2, C59 P1, C59 P2	9	10uF	GRM188D71A106MA73D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0603	0603	Active YES	YES	LEAD FREE	LEAD FREE		REACH NOT AFFECTED		CAP CER 10UF 10V X7T 0603	Murata Electronic	s GRM188D71A106MA73D	490-7200-1-ND
23	c	37. C43	2	4.7uF	GRM188C71C475KE21D	MuRata	CAP, CERM, 4.7 uF, 16 V,+/- 10%, X7R, 0603	0603	Active YES		LEAD FREE					CAP CER 4.7UF 16V X7S 0603	Murata Electronic	s GRM188C71C475KE21D	490-16337-1-ND
24			2	470pF	GCM155R71H471KA37D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402	Active YES		LEAD FREE					CAP CER 470PF 50V X7R 0402		s GCM155R71H471KA37D	490-4913-1-ND
25		46		1uF	293D105X9035B2TE3	Vishay-Sprague	CAP. TA. 1 uF. 35 V. +/- 10%. 5 ohm. SMD		Active YES	YES	LEAD FREE	LEAD FREE		REACH NOT AFFECTED		CAP TANT 1UF 10% 35V		293D105X9035B2TE3	718-1117-1-ND
							CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R,			100		LEAD FREE		AFFECTED		CAP CER 0.1UF 16V X7R			
26		48	1	0.1uF		MuRata	AEC-Q200 Grade 1, 0603 CAP, CERM, 4.7 uF, 16 V, +/- 20%, X5R,	0603	Active YES Non-		LEAD FREE					0603 CAP CER 4.7UF 2.5V X6T		s GCJ188R71C104KA01D	490-5796-1-ND GRM155D80E475ME4
27		49	1	4.7uF	GRM155D80E475ME47J	MuRata	0402 CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R,	0402	Stock YES		LEAD FREE			REACH NOT		0402 CAP CER 10000PF 50V		s GRM155D80E475ME47J	7J-ND
28	C	50	1	0.01uF	GCM155R71H103KA55D	MuRata	0402 CAP, CERM, 27 pF, 50 V, +/- 5%.	0402	Active YES	YES	LEAD FREE	LEAD FREE	REACH NOT	AFFECTED		X7R 0402 CAP CER 27PF 100V	Murata Electronic	s GCM155R71H103KA55D	490-4762-1-ND
29	C	52, C53	2	27pF	GCM1885C2A270JA16D	MuRata	C0G/NP0, 0603 CAP CERM 0.1 µF 25 V +/- 10% X7R	0603	Active YES		LEAD FREE		AFFECTED			C0G/NP0 0603 CAP CER 0 1UF 25V X7R	Murata Electronic	s GCM1885C2A270JA16D	490-17767-1-ND
30	C	56 P1, C56 P2, C61 P1, C61 P2	4	0.1uF	GCJ188R71E104KA12D	MuRata	0603 CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R,	0603	Active YES		LEAD FREE			REACH NOT		0603 CAP CER 10000PE 100V	Murata Electronic	s GCJ188R71E104KA12D	490-16477-1-ND
31	C	57 P1, C57 P2, C62 P1, C62 P2	4	0.01uF	GCM188R72A103KA37D	MuRata	AEC-Q200 Grade 1, 0603 CAP CERM 47 nF 50 V +/- 5%	0603	Active YES	YES	LEAD FREE	LEAD FREE	REACH NOT	AFFECTED		X7R 0603	Murata Electronic	s GCM188R72A103KA37D	490-4781-1-ND
32	C	58 P1, C58 P2, C69 P1, C69 P2	4	47pF	CGA3E2C0G1H470J080AA	TDK	C0G/NP0, AEC-Q200 Grade 1, 0603	0603	Active YES		LEAD FREE		AFFECTED		Jan-2017	CAP CER 47PF 50V C0G 0603	TDK Corporation	CGA3E2C0G1H470J080A A	445-5636-1-ND
33	c	63_P1, C63_P2, C68_P1, C68_P2	4	22pF	GCM1885C2A220JA16D	MuRata	CAP, CERM, 22 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603	Active YES		LEAD FREE					CAP CER 22PF 100V C0G/NP0 0603	Murata Electronic	s GCM1885C2A220JA16D	490-4942-1-ND
34			4	0.1uF	GRM188R72A104KA35J	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0603	0603	Active YES	YES	LEAD FREE	LEAD FREE		REACH NOT AFFECTED		CAP CER 0.1UF 100V X7R 0603	Murata Electronic	s GRM188R72A104KA35J	490-6439-1-ND
35		70_P1, C70_P2	2	4700pF	GCJ188R72A472KA01D	MuRata	CAP, CERM, 4700 pF, 100 V,+/- 10%, X7R AEC-Q200 Grade 1, 0603	0603	Active YES		LEAD FREE					CAP CER 4700PF 100V X7R 0603	Murata Electronic	s GCJ188R72A472KA01D	490-5773-1-ND
36			3	4700pi	SMCJ48CA-TR	STMicroelectronics	Diode, TVS, Bi, 48 V, 77.4 Vc, 1500 W, 20 A, SMC (No Polarity Mark)	SMC (No	Active YES		LEAD FREE		REACH NOT AFFECTED		Jan-2019	TVS DIODE 48V 100V SMC	STMicroelectronic	SMCJ48CA-TR	497-6522-1-ND
							Diode, TVS, Uni, 48 V, 77.4 Vc, 1500 W,	SMC					AFFECTED		Jan-2019	TVS DIODE 48V 77.4V	8		
37			2	48V	SMCJ48A	Littlefuse	20 A, SMC Diode, Switching, 100 V, 0.15 A, 0603		Active YES		LEAD FREE		REACH NOT	REACH NOT		DO214AB DIODE GEN PURP 75V	Littelfuse Inc.	SMCJ48A	SMCJ48ALFCT-ND CD0603-S01575CT-
38		6_F1, D6_F2, D28, D29	4	100V	CD0603-S01575	Bourns	Diode	0603 Diode	YES	YES	LEAD FREE	LEAD FREE	AFFECTED REACH NOT	AFFECTED REACH NOT	Jan-2017	150MA 0603 LED RED CLEAR 0603	Bourns Inc.	CD0603-S01575	ND
39	D	7_F1, D7_F2, D8_F1, D8_F2	4	Red	150060RS75000	Wurth Elektronik	LED, Red, SMD	LED_0603	Active YES	YES	LEAD FREE	LEAD FREE	AFFECTED REACH NOT	AFFECTED REACH NOT	Jan-2017	SMD DIODE SCHOTTKY 60V	Würth Elektronik Diodes	150060RS75000	732-4978-1-ND
40	D	9_F1, D9_F2	2	60V	B260-13-F	Diodes Inc.	Diode, Schottky, 60 V, 2 A, SMB	SMB	Active YES	EXEMPT	LEAD	LEAD	AFFECTED REACH NOT	AFFECTED REACH NOT	Jan-2019	2A SMB LED GREEN CLEAR 0603	Incorporated	B260-13-F	B260-FDICT-ND
41	D	10_F1, D10_F2, D11, D12	4	Green	150060GS75000	Wurth Elektronik	LED, Green, SMD	LED_0603 1 6x0 8x0 8m	Active YES	YES	LEAD FREE	LEAD FREE	AFFECTED	AFFECTED	Jan-2017	SMD LED GREEN CLEAR CHIP	Würth Elektronik	150060GS75000	732-4971-1-ND
42	D	13, D15, D16	3	Green	LTST-C190KGKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8m m	Active YES		LEAD FREE					SMD	Lite-On Inc.	LTST-C190KGKT	160-1435-1-ND
43	D	14	1	30V	DFLZ30-7	Diodes Inc.	Diode, Zener, 30 V, 1 W, PowerDI123	PowerDI123	Active YES		LEAD		REACH NOT AFFECTED		Jan-2019	DIODE ZENER 30V 1W POWERDI123	Diodes Incorporated	DFLZ30-7	DFLZ30DICT-ND
								1.7x0.65x0.8					REACH NOT	REACH NOT		LED GREEN DIFFUSED	OSRAM Opto Semiconductors		
44	D	19, D21	2	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	mm LED	Active YES	YES	LEAD FREE	LEAD FREE	AFFECTED	AFFECTED	Jan-2019	0603 SMD	Inc. OSRAM Opto	LG L29K-G2J1-24-Z	475-2709-1-ND
AF		122 D24	2	Yellow	LY L29K11K2-26-7	OSRAM	LED Yellow SMD	1.3x0.65x0.8 mm	Active YES	YES	LEAD EREE	LEAD ERFE	REACH NOT AFFECTED	REACH NOT AFFECTED	Jan-2019	LED YELLOW DIFFUSED 0603 SMD	Semiconductors	LY L29K11K2-26-7	475-2794-1-ND
45			-		150060BS75000			mm LED 0603		YES	LEAD FREE	LEAD FREE	REACH NOT AFFECTED	REACH NOT AFFECTED	Jan-2019 Jan-2017	LED BLUE CLEAR 0603 SMD	inc. Würth Elektronik	150060BS75000	475-2794-1-ND 732-4966-1-ND
46	D	25, D26, D21	3	Blue	1300008875000	vvurtn Elektronik	LED, Blue, SMD	Header,	Active YES	rES	LEAD FREE	LEAD			Jan-2017		vvurtn Elektronik	1000008575000	732-4900-1-NU
47	12	°C, J1, J10, J14	4		61300311121	Wurth Elektronik	Header, 2.54mm, 3x1, Gold, TH	2.54mm, 3x1, TH	Active YES	YES	LEAD FREE	LEAD FREE	REACH NOT AFFECTED	REACH NOT AFFECTED	Jan-2017	CONN HEADER VERT 3POS 2.54MM	Würth Elektronik	61300311121	732-5316-ND
								Header(shrou ded),											
48	J	2	1		SEAM-20-03.0-S-06-2-A-K-TR	Samtec	Header(shrouded), 1.27mm, 20x6, Gold, SMT	1.27mm, 20x6, SMT	Non- Stock YES		LEAD FREE					CONN HD ARRAY PLUG 120P SMD GOLD	Samtec Inc.	SEAM-20-03.0-S-06-2-A-K TR	SEAM-20-03.0-S-06-2- A-K-TR-ND

							Header,											
49	J3	1		GBC03DABN-M30	Sullins Connector Solutions	Header, 2.54mm, 3x2, Gold, Black, SMT	2.54mm, 3x2, SMT	Active YES	YES	LEAD FREE	LEAD FREE	REACH NOT AFFECTED	REACH NOT AFFECTED	Jan-2019	CONN HEADER SMD 6POS 2.54MM	Sullins Connector Solutions	GBC03DABN-M30	S2351E-03-ND
50	J4, J5	2		09452812800	Harting Electronics	T1 Industrial jack AH IP20	HDR2	Active YES		LEAD					T1 INDUSTRIAL ANGLED JACK AH IP2	HARTING	09452812800	1195-09452812800CT- ND
51	J6, J7, J8, J9	4		1751248	Phoenix Contact	Conn Term Block, 2POS, 3.5mm, TH	11x8.5x7.3m m	Active YES	EXEMPT	LEAD FREE	LEAD		REACH NOT AFFECTED		TERM BLK 2POS SIDE ENT 3.5MM PCB		1751248	277-5719-ND
52	J11	1		SBH11-PBPC-D07-ST-BK	Sullins Connector Solutions	Header (shrouded), 100 mil, 7x2, Gold, TH	7x2 Shrouded Header	Active YES	YES	LEAD FREE	LEAD FREE	REACH NOT AFFECTED	REACH NOT AFFECTED	Jan-2019	CONN HEADER VERT 14POS 2.54MM	Sullins Connector Solutions	SBH11-PBPC-D07-ST-BK	S9170-ND
							Sullins 100mil. 1x2.											
53	J12 F1. J12 F2. J13	3		PBC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Gold, TH	230 mil above insulator	Active YES	YES	LEAD FREE	LEAD FREE	REACH NOT AFFECTED	REACH NOT AFFECTED	Jan-2019	CONN HEADER VERT 2POS 2.54MM	Sullins Connector Solutions	PBC02SAAN	S1011E-02-ND
							Header, 2.54mm, 3x1,					REACH NOT	REACH NOT		CONN HEADER VERT			
54	J15_P1, J15_P2	2		61300311121	Wurth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	TH SMD. 2-	Active YES	YES	LEAD FREE	LEAD FREE	AFFECTED	AFFECTED	Jan-2017	3POS 2.54MM	Würth Elektronik	61300311121	732-5316-ND
55	L1, L2, L5, L6	4	330nH	744383360033	Wurth Elektronik	Inductor, 330 nH, 5.5 A, 0.014 ohm, SMD	Leads, Body 3.2x3.2mm	Active YES	YES	LEAD FREE	LEAD FREE	REACH NOT AFFECTED	REACH NOT AFFECTED	Jan-2017	FIXED IND 330NH 5.5A 17 MOHM SMD	Würth Elektronik	744383360033	732-5690-1-ND
						Shielded 2 Coil Inductor Array Inductance - Connected in Series 6.8uH Inductance -												
						Connected in Parallel 44mOhm DC Resistance (DCR) - Parallel 5A	SMT 10MM0								SMT MOLDED COUPLED			
56	L3, L4	2		7448991068	Wurth Electronics	Nonstandard Inductor, Shielded Drum Core, Powdered	10MM0 7.30x2.80x6.6	Active YES		LEAD FREE		REACH NOT	REACH NOT		INDUCTOR SIZE FIXED IND 10UH 3A 85	Würth Elektronik	7448991068	732-13372-1-ND
57	L7	1	10uH	74437346100	Wurth Elektronik	Iron, 10 uH, 3 A, 0.075 ohm, SMD Ferrite Bead, 1000 ohm @ 100 MHz, 0.2 A,	0mm	Active YES	YES	LEAD FREE	LEAD FREE	AFFECTED REACH NOT	AFFECTED REACH NOT	Jan-2017	MOHM SMD FERRITE BEAD 1 KOHM	Würth Elektronik	74437346100	732-3379-1-ND
58	L8 P1, L8 P2, L9 P1, L9 P2	4	1000 ohm	742792796	Wurth Elektronik	0402 Inductor, Multilayer, Air Core, 120 nH, 0.15	0402	Active YES	YES	LEAD FREE	LEAD FREE	AFFECTED	AFFECTED REACH NOT	Jan-2017	0402 1LN FIXED IND 120NH 200MA	Würth Elektronik	742792796	732-2132-1-ND
59	L10 P1, L10 P2, L13 P1, L13 P2	4	120nH	LQG15HSR12J02D	MuRata	A, 1.3 ohm, SMD 200uH @ 100kHz 2 Line Common Mode	polarized	Active YES	YES	LEAD FREE	LEAD FREE		AFFECTED		1.3 OHM 200UH-20%/+50% (AT	Murata Electronics	LQG15HSR12J02D	490-2636-1-ND
60	L12 P1, L12 P2	2		DLW32MH201XK2L	Murata	Choke Surface Mount 70mA DCR 4.8 Ohm	1210 PCB Label	Active YES		LEAD FREE					0.1MHZ)70MA R	Murata Electronics	DLW32MH201XK2L	490-18060-1-ND
61	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650	0.650 x 0.200 inch	Active NO	YES	LEAD	LEAD FREE		REACH NOT AFFECTED		LABEL 0.2" H X 0.65" W WHITE	Brady Corporation	THT-14-423-10	2267-THT-14-423-10- ND
62	01	1	60V	DMT6007LFG-7	Diodes Inc.	MOSFET, N-CH, 60 V, 15 A, AEC-Q101, 8- PowerVDFN		Active YES		I FAD		REACH NOT AFFECTED		.lan-2019	MOSFET BVDSS: 41V 60V POWERDI333	Diodes	DMT6007LEG-7	DMT6007LFG-7DICT- ND
63	Q2_F1, Q2_F2	2	100V	CSD19537Q3		MOSFET, N-CH, 100 V, 50 A, DQG0008A (VSON-CLIP-8)	DQG0008A	Active YES		LEAD		REACH NOT AFFECTED		Jan-2019	MOSFET N-CH 100V 50A 8VSON	Texas Instruments	CSD19537Q3	296-44351-1-ND
64	Q3 F1, Q3 F2	2	50V	BSS138	Fairchild	MOSFET. N-CH. 50 V. 0.22 A. SOT-23	SOT-23	Active YES	YES	LEAD FREE	I FAD FREE	REACH NOT AFFECTED	REACH NOT AFFECTED	Jan-2020	MOSFET N-CH 50V 220MA SOT-23	ON Semiconductor		BSS138CT-ND
-	R1, R50, R51, R53, R62, R65, R74, R76, R85, R88 P1, R88 P2, R89 P1		554	200100														
65	R89_P2, R90_P1, R90_P2, R91_P1, R91_P2	17	2 49k	CRCW04022K49EKED	Vishav-Dale	RES, 2.49 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402	Active YES	EXEMPT	LEAD FREE	LEAD		REACH NOT AFFECTED		RES SMD 2.49K OHM 1% 1/16W 0402	Vishav Dale	CRCW04022K49FKED	541-2.49KLCT-ND
66	R2	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402	Active YES		LEAD FREE	LEAD		REACH NOT AFFECTED		RES SMD 49.9K OHM 1% 1/16W 0402	Vishay Dale	CRCW040249K9FKED	541-49.9KLCT-ND
67	R3	1	0.02	LVK12R020FFR	Ohmite	RES 0.02 1% 0.5 W 1206 sense	1206 sense	Active YES		LEAD FREE					RES 0.02 OHM 1% 1/2W 1206	Ohmite	LVK12R020FFR	LVK12R020FERCT- ND
68	R4	1	562k	CRCW0402562KFKED	Vishay-Dale	RES, 562 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402	Active YES		LEAD FREE					RES SMD 562K OHM 1% 1/16W 0402	Vishay Dale	CRCW0402562KFKED	541-562KLCT-ND
69	R5	1	24.9k	CRCW040224K9FKED	Vishay-Dale Vishay-Dale	RES, 24.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402	Active YES	EYEMPT	LEAD FREE	LEAD		REACH NOT AFFECTED		RES SMD 24.9K OHM 1% 1/16W 0402	Vishay Dale	CRCW040224K9FKED	541-24.9KLCT-ND
03	R6_F1, R6_F2, R7_F1, R7_F2, R8_F1, R8_F2, R16, R107, R108,		24.08	CNOWO40224NSI NED	Visitay-Date	Grade 0, 0402	0402	Active 123	LALWF I	LEADTREE	LLAD		REACH NOT		RES SMD 49.9K OHM 1%	Visitay Date	CICCIPO40224RSI RED	34 1-24.5REC 1-ND
70	R109	10	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603 RES, 715 k, 1%, 0.063 W, AEC-Q200	0603	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED		1/10W 0603 RES SMD 715K OHM 1%	Vishay Dale	CRCW060349K9FKEA	541-49.9KHCT-ND
71	R9_F1, R9_F2	2	715k	CRCW0402715KFKED	Vishay-Dale	Grade 0, 0402 RES, 976 k, 1%, 0.063 W, AEC-Q200	0402	Active YES		LEAD FREE			REACH NOT		1/16W 0402 RES SMD 976K OHM 1%	Vishay Dale	CRCW0402715KFKED	541-715KLCT-ND
72	R10_F1, R10_F2	2	976k	CRCW0402976KFKED	Vishay-Dale	Grade 0, 0402 RES. 10.0 k. 1%, 0.063 W. AEC-Q200	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 10K OHM 1%	Vishay Dale	CRCW0402976KFKED	541-976KLCT-ND
73	R11_F1, R11_F2, R18, R27	4	10.0k	CRCW040210K0FKED	Vishay-Dale	Grade 0, 0402 RES 24.3 k 1% 0.063 W AEC-Q200	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 24 3K OHM 1%	Vishay Dale	CRCW040210K0FKED	541-10.0KLCT-ND
74	R12_F1, R12_F2, R14_F1, R14_F2	4	24.3k	CRCW040224K3FKED	Vishay-Dale	Grade 0, 0402 RES, 17.8 k, 1%, 0.063 W, AEC-Q200	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 17.8K OHM 1%	Vishay Dale	CRCW040224K3FKED	541-24.3KLCT-ND
75	R13_F1, R13_F2	2	17.8k	CRCW040217K8FKED	Vishay-Dale	Grade 0, 0402 RES, 100 k, 1%, 0.063 W, AEC-Q200	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 100K OHM 1%	Vishay Dale	CRCW040217K8FKED	541-17.8KLCT-ND
76	R15, R23	2	100k	CRCW0402100KFKED	Vishay-Dale	Grade 0, 0402 RES, 243 k, 1%, 0.063 W, AEC-Q200	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED		1/16W 0402 RES SMD 243K OHM 1%	Vishay Dale	CRCW0402100KFKED	541-100KLCT-ND
77	R17	1	243k	CRCW0402243KFKED	Vishay-Dale	Grade 0, 0402 RES, 60.4 k, 1%, 0.063 W, AEC-Q200	0402	Active YES		LEAD FREE			REACH NOT		1/16W 0402 RES SMD 60.4K OHM 1%	Vishay Dale	CRCW0402243KFKED	541-243KLCT-ND
78	R19, R41, R42	3	60.4k	CRCW040260K4FKED	Vishay-Dale	Grade 0, 0402 RES. 8.25 k. 1%, 0.063 W. AEC-Q200	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 8 25K OHM 1%	Vishay Dale	CRCW040260K4FKED	541-60.4KLCT-ND
79	R20	1	8.25k	CRCW04028K25FKED	Vishay-Dale	Grade 0, 0402 RES. 9.09 k. 1%, 0.063 W. AEC-Q200	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 9.09K OHM 1%	Vishay Dale	CRCW04028K25FKED	541-8.25KLCT-ND
80	R21	1	9.09k	CRCW04029K09FKED	Vishay-Dale	Grade 0, 0402	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 24.3K OHM 1%	Vishay Dale	CRCW04029K09FKED	541-9.09KLCT-ND
81	R22	1	24.3k	CRCW060324K3FKEA	Vishay-Dale	RES, 24.3 k, 1%, 0.1 W, 0603 RES, 40.2 k, 1%, 0.063 W, AEC-Q200	0603	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/10W 0603 RES SMD 40.2K OHM 1%	Vishay Dale	CRCW060324K3FKEA	541-24.3KHCT-ND
82	R24	1	40.2k	CRCW040240K2FKED	Vishay-Dale	Grade 0, 0402 RES, 20.5 k, 1%, 0.063 W, AEC-Q200	0402	Active YES		LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 20.5K OHM 1%	Vishay Dale	CRCW040240K2FKED	541-40.2KLCT-ND
83	R25	1	20.5k	CRCW040220K5FKED	Vishay-Dale	Grade 0, 0402 RES, 88.7 k, 1%, 0.063 W, AEC-Q200	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 88.7K OHM 1%	Vishay Dale	CRCW040220K5FKED	541-20.5KLCT-ND
84	R26	1	88.7k	CRCW040288K7FKED	Vishay-Dale	Grade 0, 0402 RES, 432, 1%, 0.1 W, AEC-Q200 Grade 0,	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED		1/16W 0402 RES SMD 432 OHM 1%	Vishay Dale	CRCW040288K7FKED	541-88.7KLCT-ND
85	R28, R34, R47, R105	4	432	CRCW0603432RFKEA	Vishay-Dale	0603 RES, 118 k, 1%, 0.063 W, AEC-Q200	0603	Active YES		LEAD FREE			REACH NOT		1/10W 0603 RES SMD 118K OHM 1%	Vishay Dale	CRCW0603432RFKEA	541-432HCT-ND
86	R29	1	118k	CRCW0402118KFKED	Vishay-Dale	Grade 0, 0402 RES, 150 k, 1%, 0.063 W, AEC-Q200	0402	Active YES		LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 150K OHM 1%	Vishay Dale	CRCW0402118KFKED	541-118KLCT-ND
87	R30	1	150k	CRCW0402150KFKED	Vishay-Dale	Grade 0, 0402 RES, 86.6 k, 1%, 0.063 W, AEC-Q200	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 86.6K OHM 1%	Vishay Dale	CRCW0402150KFKED	541-150KLCT-ND
88	R31	1	86.6k	CRCW040286K6FKED	Vishay-Dale	Grade 0, 0402 RES, 18.7 k, 1%, 0.063 W, AEC-Q200	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 18.7K OHM 1%	Vishay Dale	CRCW040286K6FKED	541-86.6KLCT-ND
89	R32	1	18.7k	CRCW040218K7FKED	Vishay-Dale	Grade 0, 0402	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 1 OHM 1%	Vishay Dale	CRCW040218K7FKED	541-18.7KLCT-ND
90	R33	1	1.00	CRCW06031R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.1 W, 0603 RES, 4.75, 1%, 0.063 W, AEC-Q200 Grade	0603	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED		1/10W 0603 RES SMD 4.75 OHM 1%	Vishay Dale	CRCW06031R00FKEA	541-1.00HHCT-ND
91	R35, R37, R106	3	4.75	CRCW04024R75FKED	Vishay-Dale	0, 0402 RES. 1.00 k. 1%. 0.063 W. AEC-Q200	0402	Active YES		LEAD FREE			REACH NOT		1/16W 0402 RES SMD 1K OHM 1%	Vishay Dale	CRCW04024R75FKED	541-4.75LLCT-ND
92	R36	1	1.00k	CRCW04021K00FKED	Vishay-Dale	Grade 0, 0402 RES, 7.50 k, 1%, 0.063 W, AEC-Q200	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 7.5K OHM 1%	Vishay Dale	CRCW04021K00FKED	541-1.00KLCT-ND
93	R38	1	7.50k	CRCW04027K50FKED	Vishay-Dale	Grade 0, 0402 RES. 15.0 k. 1%, 0.063 W. AEC-Q200	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 15K OHM 1%	Vishay Dale	CRCW04027K50FKED	541-7.50KLCT-ND
94	R39	1	15.0k	CRCW040215K0FKED	Vishay-Dale	Grade 0, 0402 RES, 30.1 k, 1%, 0.063 W, AEC-Q200	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/16W 0402 RES SMD 30.1K OHM 1%	Vishay Dale	CRCW040215K0FKED	541-15.0KLCT-ND
95	R40	1	30.1k	CRCW040230K1FKED	Vishay-Dale	Grade 0, 0402 RES. 11.3 k. 1%, 0.063 W. AEC-Q200	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED		1/16W 0402 RES SMD 11.3K OHM 1%	Vishay Dale	CRCW040230K1FKED	541-30.1KLCT-ND
96	R43	1	11.3k	CRCW040211K3FKED	Vishay-Dale	Grade 0, 0402	0402	Active YES		LEAD FREE					1/16W 0402	Vishay Dale	CRCW040211K3FKED	541-11.3KLCT-ND

97	R44		1	22.6k	CRCW040222K6FKED	Vishav-Dale	RES, 22.6 k, 1%, 0.063 W, AEC-Q200 Grade 0. 0402	0402	Active YES	EXEMPT	LEAD FREE	LEAD		REACH NOT AFFECTED		RES SMD 22.6K OHM 1% 1/16W 0402	Vishav Dale	CRCW040222K6FKED	541-22.6KLCT-ND
	1144			LL.ON	ONOW OF DEED TO THE D	violity but	RES, 45.3 k, 1%, 0.063 W, AEC-Q200	0402	710070 720	LACLINI I	ED ID I NEE			REACH NOT		RES SMD 45.3K OHM 1%	violity Duic	ONOTO-OLLECTION NED	OTTEL GREET THE
98	R45		1	45.3k	CRCW040245K3FKED	Vishay-Dale	Grade 0, 0402	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED			Vishay Dale	CRCW040245K3FKED	541-45.3KLCT-ND
99	R46. R48		2	90 9k	CRCW040290K9FKED	Vishav-Dale	RES, 90.9 k, 1%, 0.063 W, AEC-Q200 Grade 0. 0402	0402	Active YES	EXEMPT	LEAD FREE	LEAD		REACH NOT AFFECTED		RES SMD 90.9K OHM 1% 1/16W 0402	Vishav Dale	CRCW040290K9FKED	541-90.9KLCT-ND
00	1440, 1440		-	50.5K	ONOTIONOESONS NEED	violity but	01440 0, 0462	0402	710070 720	LACLINI I	ED ID I NEE	LLTID		REACH NOT		RES SMD 0 OHM JUMPER	violity Duic	ONOTIONOESONO NED	041-00.5/LE01-ND
100	R49		1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED		1/16W 0402	Vishay Dale	CRCW04020000Z0ED	541-0.0JCT-ND
10	R66. R75. R77.	R86	4	560	CRCW0402560RJNED	Vishav-Dale	RES, 560, 5%, 0.063 W, AEC-Q200 Grade 0. 0402	0402	Active YES	EXEMPT	LEAD FREE	LEAD		REACH NOT AFFECTED		RES SMD 560 OHM 5% 1/16W 0402	Vishav Dale	CRCW0402560RJNED	541-560JCT-ND
10	1100, 1110, 1111,	1100		300	CICOV 0402300IV3INED	violity but	0,0402	0402	710070 720	LACLINI I	ED ID I NEE	LLTID	REACH NOT	REACH NOT		RES SMD 27 OHM 1%	violity Duic	ONOTIO TO LOCATION LED	541 555551 ND
102		P2, R93_P1, R93_P2 P2, R98_P1, R98_P2, P2, R100_P1,	4	27.0	RC0603FR-0727RL	Yageo	RES, 27.0, 1%, 0.1 W, 0603	0603	Active YES	EXEMPT	LEAD FREE	LEAD	AFFECTED	AFFECTED	Jul-2017	1/10W 0603	Yageo	RC0603FR-0727RL	311-27.0HRCT-ND
	R100_P2, R101																		
101	R102_P1, R102 R103_P2, R104		16	22	CRCW040222R0JNED	Vishav-Dale	RES, 22, 5%, 0.063 W, AEC-Q200 Grade 0. 0402	0402	Active YES	EVEMBT	LEAD FREE	LEAD		REACH NOT AFFECTED		RES SMD 22 OHM 5% 1/16W 0402	Vishav Dale	CRCW040222R0JNED	541-22JCT-ND
10.	1 100 F2,1004	F1, K104 F2	10	22	CICHONOZZZINONED	visitay-Date	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade			LALWIFT	LEADTREE			REACH NOT		RES SMD 1K OHM 1%			
104	R95 P1, R95 F	P2, R96 P1, R96 P2	4	1.00k	CRCW06031K00FKEA	Vishay-Dale	0, 0603 RES. 100 k. 1%, 0.25 W. AEC-Q200 Grade		Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED REACH NOT		1/10W 0603 RES SMD 100K OHM 1%	Vishay Dale	CRCW06031K00FKEA	541-1.00KHCT-ND
105	R97 P1, R97 F	2	2	100k	CRCW1206100KFKEA	Vishay-Dale	0, 1206	1206	Active YES	EXEMPT	LEAD FREE	LEAD		AFFECTED		1/4W 1206	Vishay Dale	CRCW1206100KFKEA	541-100KFCT-ND
								Black					DELOUNGE	DELOULOT		PC TEST POINT			
106	TP1, TP2, TP10	1 TP11	4		5001	Kevstone	Test Point, Miniature, Black, TH	Miniature Testpoint	Active YES	YES	LEAD FREE	LEAD FREE	REACH NOT AFFECTED	REACH NOT AFFECTED	Jan-2019		Keystone Electronics	5001	36-5001-ND
		2, 11 11	-		0001	respond	rest rolls, militare, black, fri	Red Miniature	710070 720	120	ED ID I NEE	LETTOTTLE	REACH NOT	REACH NOT	0di1-2010	PC TEST POINT	Keystone	0001	00 0001112
107	TP3, TP4, TP5,	TP8, TP9	5		5000	Keystone	Test Point, Miniature, Red, TH	Testpoint White	Active YES	YES	LEAD FREE	LEAD FREE	AFFECTED	AFFECTED	Jan-2019	MINIATURE RED	Electronics	5000	36-5000-ND
								Miniature					REACH NOT	REACH NOT		PC TEST POINT	Keystone		
108	TP6_F1, TP6_F	2, TP7_F1, TP7_F2	4		5002	Keystone	Test Point, Miniature, White, TH	Testpoint	Active YES	YES	LEAD FREE	LEAD FREE	AFFECTED	AFFECTED	Jan-2019		Electronics	5002	36-5002-ND
109	U1		1		MSP430G2332QPW2REP	Texas Instruments	Enhanced Product Mixed Signal Microcontroller, PW0020A (TSSOP-20)	PW0020A	Active YES		LEAD EREE		REACH NOT AFFECTED		Jan-2019	IC MCU 16BIT 4KB FLASH 20TSSOP	Texas Instruments	MSP430G2332QPW2REP	296-38190-1-ND
							, , , , , ,												296-
110	U2				LM74700QDBVRQ1	Town lasts would	Low Iq Always ON Smart Diode Controller, DBV0006A (SOT-23-6)	DBV0006A	Active YES		LEAD					POWER MANAGEMENT	Town bottoments	I M74700QDBVRQ1	LM74700QDBVRQ1CT
110	02				EW/4700QDBVIQ1	rexas instruments	DBV0000A (301-23-0)	DBV0000A	Active ILS		LLAD					FOWER MAINAGEMENT	rexas iristruments	LW/4700QDDVIQ1	296-
	U3 F1. U3 F2				TPS26631RGER		4.5V - 60V, 6A 29m? eFuse with Reverse Polarity Protection. RGE0024H (VQFN-24)		Non- Stock NO		LEAD					IC PWR MGMT BATTERY MGMT	Texas Instruments		TPS26631RGERTR- ND
111	U3_F1, U3_F2		2		TPS26631RGER	i exas instruments	SIMPLE SWITCHER 3.5V to 60V 3.5A	RGE0024H	Stock NU		LEAD					MGMI	l exas instruments	TP52003TRGER	ND
							Synchronous Step-Down Voltage						REACH NOT			IC REG BUCK ADJ 3.5A			
112	U4		1		LM76003RNPR	Texas Instruments	Regulator, RNP0030B (WQFN-30) 4V to 36V, 2A Step-Down DC/DC Power	RNP0030B	Active YES		LEAD FREE		AFFECTED		Jan-2019	30WQFN	Texas Instruments	LM76003RNPR	296-49740-1-ND
							Module in Compact 7x9x4mm QFN						REACH NOT			DC DC CONVERTER 1-			
113	U5		1		LMZM33603RLRR	Texas Instruments	Package, RLR0018A (B3QFN-18)	RLR0018A	Active YES		LEAD FREE		AFFECTED		Jan-2019	18V	Texas Instruments	LMZM33603RLRR	296-48830-1-ND

| 119 | 113 P1, U13 P2 | 2 | DP83TC811RWRNDRQ1 | Texas Instruments | DP83TC811Q1, RND0036A (VQFNP-36) | RND0036A | Active | YES | LEAD FREE | AFFECTED | Jan-2019 | 36VQFN | Texas Instruments | DP83TC811RWRNDRQ1 | 29-49440-ND

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