

Part Number	Quantity	Part Reference	Value	Description	Vendor	Vendor Part Number	PCB Package	Max Oper Temp	RoHS Status	REACH/SVHC COMPLIANCE
DNM	0	A1	DNM	DNM	DNM	DNM		DNM	DNM	DNM
DNM	0	A2	DNM	DNM	DNM	DNM		DNM	DNM	
		C3 C4 C5 C7 C9 C16 C20 C32 C38 C39 C43 C46 C52 C53 C54 C55 C56		CAPACITOR, CERAMIC X7R, 100nF, 6.3V, -10%/+10%, -						
02-07610	18	C57	100nF	55DEGC/+125DEGC, 0402, SMD	MURATA	GRM155R70J104KA01D	0402	+125DEGC	ROHS_COMPLIANT	COMPLIANT
				CAPACITOR, CERAMIC, X5R, 22uF, 6.3V, -20%/+20%, -						
02-07053	2	C6 C8	22uF	55DEGC/+85DEGC, 0603, SMD	MURATA	GRM188R60J226MEA0D	0603	+85DEGC	ROHS_COMPLIANT	COMPLIANT
		C11 C12 C22 C62		CAPACITOR, CERAMIC COG/NP0, 3.6pF, 50V, -0.25pF/+0.25pF, -						
02-07631	6	C72 C73	3.6pF	55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H3R6CA01D	0402	+125DEGC	ROHS_COMPLIANT	COMPLIANT
				CAPACITOR, CERAMIC COG, 5.6pF, 50V, -0.25pF/+0.25pF, -						
02-07850	1	C13	5.6pF	55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H5R6CA01D	0402	+125DEGC	ROHS_COMPLIANT	COMPLIANT
				CAPACITOR, CERAMIC COG/NP0, 3.3pF, 50V, -0.25pF/+0.25pF, -						
02-07621	1	C14	3.3pF	55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H3R3CA01D	0402	+125DEGC	ROHS_COMPLIANT	COMPLIANT
				CAPACITOR, CERAMIC COG/NP0, 100pF, 50V, -5%/+5%, -						
02-07619	1	C15	100pF	55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H101JA01D	0402	+125DEGC	ROHS_COMPLIANT	COMPLIANT
		C17 C18 C24 C33 C34 C58 C63 C64		CAPACITOR, CERAMIC COG/NP0, 12pF, 50V, -5%/+5%, -						
02-07617	9	C65	12pF	55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H120JA01D	0402	+125DEGC	ROHS_COMPLIANT	COMPLIANT
				CAPACITOR, CERAMIC X5R, 1uF, 10V, -10%/+10%, -						
02-07611	4	C19 C40 C42 C44	1uF	55DEGC/+85DEGC, 0402, SMD	MURATA	GRM155R61A105KE15D	0402	+85DEGC	ROHS_COMPLIANT	COMPLIANT
				CAPACITOR, CERAMIC COG/NP0, 1pF, 50V, -0.25pF/+0.25pF, -						
02-07627	4	C21 C59 C60 C68	1pF	55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H1R0CA01D	0402	+125DEGC	ROHS_COMPLIANT	COMPLIANT
DNM	0	C23 C61 C67 C69	DNM	DNM	DNM		DNM	DNM	DNM	
				CAPACITOR, CERAMIC X7R, 100nF, 10V, -10%/+10%, -						
02-07774	2	C30 C70	100nF	55DEGC/+125DEGC, 0402, SMD	MURATA	GRM155R71A104KA01D	0402	+125DEGC	ROHS_COMPLIANT	COMPLIANT
		C35 C36 C37 C41		CAPACITOR, CERAMIC X7R, 10nF, 25V, -10%/+10%, -						
02-07775	5	C50	10nF	55DEGC/+125DEGC, 0402, SMD	MURATA	GRM155R71E103KA01D	0402	+125DEGC	ROHS_COMPLIANT	COMPLIANT
				CAPACITOR, CERAMIC X5R, 2.2uF, 6.3V, -10%/+10%, -						
02-07624	3	C45 C48 C49	2.2uF	55DEGC/+85DEGC, 0402, SMD	MURATA	GRM155R60J225KE95D	0402	+85DEGC	ROHS_COMPLIANT	COMPLIANT
				CAPACITOR, CERAMIC COG/NP0, 15pF, 50V, -5%/+5%, -						
02-07776	1	C47	15pF	55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H150JA01D	0402	+125DEGC	ROHS_COMPLIANT	COMPLIANT
				CAPACITOR, CERAMIC COG/NP0, 3pF, 50V, -0.25pF/+0.25pF, -						
02-07625	1	C71	3pF	55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H3R0CA01D	0402	+125DEGC	ROHS_COMPLIANT	COMPLIANT
				OPTO, LED, GREEN COLOR, 562nm, 0.02A, 0.08W, 0603, SMD						
15-01023	2	CR1 CR5	LPL296-J2L2-25	OSRAM	LP L296-J2L2-25	0603	+100DEGC	ROHS_COMPLIANT	COMPLIANT	
				OPTO, LED, SUPER RED COLOR, 630nm, 1.8V TO 2.3V, 0.06A, 0603, SMD						
15-01169	2	CR2 CR4	LS L296-P2Q2-1	OSRAM	LS L296-P2Q2-1	0603	+100DEGC	ROHS_COMPLIANT	COMPLIANT	
				DIODE, PROTECTION, ESD						
14-06172	1	CR6	TPD4E004 DRY	ARRAY, 4 CHANNEL, 6V TO 8V, -40DEGC/+85DEGC, SON6, SMD	TEXAS INSTRUMENTS	TPD4E004DRYR	SON6	+85DEGC	ROHS_COMPLIANT	COMPLIANT
				DIODE, PROTECTION, ESD, 7V, -40DEGC/+85DEGC, QFN8, SMD						
14-05493	2	CR7 CR8	TPD6E004 RSER	TEXAS INSTRUMENTS	TPD6E004RSER	QFN8	+85DEGC	ROHS_COMPLIANT	COMPLIANT	
		FIDU1 FIDU2 FIDU3 FIDU4								
DNM	0	FIDU5 FIDU6	DNM	DNM						
				BLM18HE1 FILTER, EMI, 1500@100MHz, -52SN1						
04-00470	1	FL1	52SN1	55DEGC/+125DEGC, 0603, SMD	MURATA	BLM18HE152SN1D	0603	+125DEGC	ROHS_COMPLIANT	COMPLIANT
				CONNECTOR, HEADER, FEMALE, STRAIGHT, 2 ROWS, 20 ROWS, 2.54mm, PTH						
06-04997	2	J1 J2	SSQ-110-23-L-D	SAMTEC	SSQ-110-23-L-D		+125DEGC	ROHS_COMPLIANT	COMPLIANT	
				CONNECTOR, USB, FEMALE, RIGHT ANGLE, 1 ROW, 5 PINS, PITCH 0.65mm, SMD						
06-04998	1	J6	105164-0001	MOLEX	105164-0001		+85DEGC	ROHS_COMPLIANT	COMPLIANT	
				INDUCTOR, STANDARD, CHIP, FERRITE CORE, SHIELDED, 6.8uH, -20%/+20%, 1.1A, -						
03-07266	1	L1	6.8uH	55DEGC/+125DEGC, 0805, SMD	TDK	MLZ2012N6R8LT000	0805	+125DEGC	ROHS_COMPLIANT	COMPLIANT
				INDUCTOR, RF, CHIP, NON-MAGNETIC CORE, 2.2nH, -0.2nH/+0.2nH, 1A, -						
03-06739	3	L11 L21 L26	2.2nH	55DEGC/+155DEGC, 0402, SMD	MURATA	LQW15AN2N2C10D	0402	+155DEGC	ROHS_COMPLIANT	COMPLIANT

03-07532	3	L12 L13 L27	6.8nH	INDUCTOR, RF, CHIP, NON-MAGNETIC CORE, 6.8nH, -5%/+5%, 0.3A, -55DEGC/+125DEGC, 0402, SMD	MURATA	LQG15HS6N8J02D	0402	+125DEGC	ROHS_COMPLIANT	COMPLIANT
03-07533	2	L14 L32	7.5nH	INDUCTOR, RF, CHIP, NON-MAGNETIC CORE, 7.5nH, -5%/+5%, 0.3A, -55DEGC/+125DEGC, 0402, SMD	MURATA	LQG15HS7N5J02D	0402	+125DEGC	ROHS_COMPLIANT	COMPLIANT
03-06651	1	L25	1.5nH	INDUCTOR, RF, CHIP, NON-MAGNETIC CORE, 1.5nH, -0.2nH/+0.2nH, 1A, -55DEGC/+125DEGC, 0402, SMD	MURATA	LQW15AN1N5C00D	0402	+125DEGC	ROHS_COMPLIANT	COMPLIANT
03-06552	2	L28 L29	10nH	INDUCTOR, RF, CHIP, NON-MAGNETIC CORE, 10nH, -5%/+5%, 0.5A, -55DEGC/+125DEGC, 0402, SMD	MURATA	LQW15AN10NJ00D	0402	+125DEGC	ROHS_COMPLIANT	COMPLIANT
DNM	0	L31	DNM	DNM						
DNM	0	LBL1	DNM	DNM						
DNM	0	LBL2	DNM	DNM						
19-00498	14	M1 M2 M3 M4 M5 M6 M7 M8 M9 M10 M11 M12	SNT-100-BK-G	MECHANIC, SHUNT, CURRENT RATING 4.3A PER PIN, 2.54 X 5.08 X 6.1mm, BLACK	SAMTEC	SNT-100-BK-G		+125DEGC	ROHS_COMPLIANT	COMPLIANT
DNM	0	MH1 MH2	DNM	DNM						
DNM	0	MH3 MH4	DNM	DNM						
DNM	0	MH5	DNM	DNM						
06-05038	3	P1 P2 P10	BB02-HC031-KB1-603000	CONNECTOR, HEADER, MALE, STRAIGHT, 1 ROW, 3 PINS, PITCH 2.54mm, PTH	GRADCONN	BB02-HC031-KB1-603000		+105DEGC	ROHS_COMPLIANT	COMPLIANT
06-05049	1	P4	BB02-HJ221-KB1-603000	CONNECTOR, HEADER, MALE, STRAIGHT, 2 ROWS, 22 PINS, PITCH 2.54mm, PTH	GRADCONN	BB02-HJ221-KB1-603000		+105DEGC	ROHS_COMPLIANT	COMPLIANT
06-00166	2	P5 P7	FTSH-105-01-F-DV-K	CONNECTOR, HEADER, MALE, STRAIGHT, 10 PINS, 2 ROWS, PITCH 1.27mm, SMD	SAMTEC	FTSH-105-01-F-DV-K		+125DEGC	ROHS_COMPLIANT	COMPLIANT
06-04999	1	P6	BB02-HJ041-KB1-603000	CONNECTOR, HEADER, MALE, STRAIGHT, 2 ROWS, 4 PINS, PITCH 2.54mm, PTH	GRADCONN	BB02-HJ041-KB1-603000		+105DEGC	ROHS_COMPLIANT	COMPLIANT
19-00452	1	P8	TC2050-IDC-NL	NON COMPONENT, CONNECTOR CABLE, PLUG OF NAILS, 10 PINS, 2 ROWS, SMD						
06-05051	2	P11 P12	MM5829-2700	CONNECTOR, COAX, MALE, UP TO 12GHz, 30V, SMD	MURATA	MM5829-2700RJ4		+85DEGC	ROHS_COMPLIANT	COMPLIANT
01-22492	5	R1 R61 R62 R63 R65	100k	RESISTOR, THICK FILM, 100k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW0402100KJNED	0402	+155DEGC	ROHS_COMPLIANT	COMPLIANT
01-22488	3	R2 R3 R58	3.3k	RESISTOR, THICK FILM, 3.3k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW04023K30JNED	0402	+155DEGC	ROHS_COMPLIANT	COMPLIANT
01-22487	1	R11	2.2k	RESISTOR, THICK FILM, 2.2k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW04022K20JNED	0402	+155DEGC	ROHS_COMPLIANT	COMPLIANT
01-22346	2	R14 R25	220	RESISTOR, THICK FILM, 220, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW0402220RJNED	0402	+155DEGC	ROHS_COMPLIANT_W	COMPLIANT
01-22345	2	R15 R23	180	RESISTOR, THICK FILM, 180, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW0402180RJNED	0402	+155DEGC	ROHS_COMPLIANT_W	COMPLIANT
01-22353	1	R17	10k	RESISTOR, THICK FILM, 10k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW040210K0JNED	0402	+155DEGC	ROHS_COMPLIANT_W	COMPLIANT
01-22489	1	R18	4.7k	RESISTOR, THICK FILM, 4.7k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW04024K70JNED	0402	+155DEGC	ROHS_COMPLIANT	COMPLIANT
DNM	0	R19 R21 R59 R60 R67 R68	DNM	DNM	DNM	DNM	DNM	DNM	DNM	
01-22482	5	R20 R55 R56 R57 R66	100	RESISTOR, THICK FILM, 100, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW0402100RJNED	0402	+155DEGC	ROHS_COMPLIANT	COMPLIANT
01-22480	1	R22	330k	RESISTOR, THICK FILM, 330k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW0402330KFED	0402	+155DEGC	ROHS_COMPLIANT_W	COMPLIANT
01-22479	1	R24	220k	RESISTOR, THICK FILM, 220k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW0402220KFED	0402	+155DEGC	ROHS_COMPLIANT_W	COMPLIANT
01-22486	4	R27 R29 R30 R39	1k	RESISTOR, THICK FILM, 1k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW04021K00JNED	0402	+155DEGC	ROHS_COMPLIANT	COMPLIANT
01-22494	1	R28	4.87k	RESISTOR, THICK FILM, 4.87k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW04024K87KFED	0402	+155DEGC	ROHS_COMPLIANT_W	COMPLIANT
01-22481	1	R31	51	RESISTOR, THICK FILM, 51, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW040251R0JNED	0402	+155DEGC	ROHS_COMPLIANT	COMPLIANT

01-22477	1 R32	33k	RESISTOR, THICK FILM, 33k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW040233K0FKED	0402	+155DEGC	ROHS_COMPLIANT_W	COMPLIANT
01-22491	1 R33	51k	RESISTOR, THICK FILM, 51k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW040251K0JNED	0402	+155DEGC	ROHS_COMPLIANT	COMPLIANT
01-22490	1 R34	30k	RESISTOR, THICK FILM, 30k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW040230K0JNED	0402	+155DEGC	ROHS_COMPLIANT	COMPLIANT
DNM	R46 R47 R48 R49 0 R51	DNM	DNM	DNM	DNM	DNM	DNM	DNM	
01-20043	1 R52	0	RESISTOR, THICK FILM, 0, 0R/+0.02R, 0.1W, 75V, -55DEGC/+155DEGC, 0603, SMD	VISHAY	CRCW06030000Z0EC	0603	+155DEGC	ROHS_COMPLIANT	COMPLIANT
01-22495	1 R69	0	RESISTOR, THICK FILM, 0, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	VISHAY	CRCW04020000Z0ED	0402	+155DEGC	ROHS_COMPLIANT_W	COMPLIANT
08-00293	3 SW1 SW2 SW3	V	SWITCH, TACT, 0.05A@250VAC, 1188E-1K2-0.05A@12VDC, 0.05A, 250V, SMD	DIPTRONICS	1188E-1K2-V-TR		+70DEGC	ROHS_COMPLIANT	COMPLIANT
18-28964	1 U1	CC1350F128RGZ	IC, CUSTOM, CC1350F128RGZ, QFN48, SMD	TEXAS INSTRUMENTS	CC1350F128RGZT	QFN48	N/A	MISSING_INFO	COMPLIANT
18-31726	1 U4	MX25R8035FZUILO	IC, MEMORY, FLASH, SERIAL, 8Mbit, 1.65V TO 3.6V, USON8, SMD	MACRONIX	MX25R8035FZUILO	USON8	+85DEGC	ROHS_COMPLIANT	COMPLIANT
18-29511	1 U5	TM4C1294NCPDTT3R	IC, MICROPROCESSOR, TIVA C SERIES MICROCONTROLLER, ARM CRTEX-M4, 2.97V TO 3.63V, TQFP128, SMD	TEXAS INSTRUMENTS	TM4C1294NCPDTT3R	TQFP128	+85DEGC	ROHS_COMPLIANT	COMPLIANT
18-29558	1 U6	LM4040B2SIDCK	IC, ANALOG, PRECISION MICROPOWER SHUNT VOLTAGE REFERENCE, 2.5V, SC70-5, SMD	TEXAS INSTRUMENTS	LM4040B2SIDCKR	SC70-5	+85DEGC	ROHS_COMPLIANT	COMPLIANT
18-29530	1 U7	TPS79601DR	IC, ANALOG, ULTRALOW-NOISE, HIGH PSRR, FAST, RF, 1A LOW-DROPOUT LINEAR REGULATORS, VIN:2.7V TO 5.5V, VOUT:1.2V TO 5.5V, SON8, SMD	TEXAS INSTRUMENTS	TPS79601DRBR	SON8	+125DEGC	ROHS_COMPLIANT	COMPLIANT
18-29288	3 U8 U9 U10	SN74AVC4T245RSV	IC, DIGITAL, LOGIC, 4bit DUAL-SUPPLY BUS TRANSCEIVER 3 STATE OUTPUT, 1.2V TO 3.6V, UQFN16, SMD	TEXAS INSTRUMENTS	SN74AVC4T245RSVR	UQFN16	+85DEGC	ROHS_COMPLIANT	COMPLIANT
18-31672	1 U11	XMSSJE3G0PA-003	IC, ANALOG, CMOS DP4T SWITCH FOR WIRELESS COMMUNICATION, 2.5V TO 3V, SMD	MURATA	XMSSJE3G0PA-003		+85DEGC	ROHS_COMPLIANT	COMPLIANT
12-00546	1 Y1	32.768kHz	CRYSTAL, RESONATOR, 32.768kHz, -20PPM/+20PPM, -40DEGC/+85DEGC, SMD	EPSON	FC-135 32.7680KA-AGO		+85DEGC	ROHS_COMPLIANT	COMPLIANT
12-00757	1 Y2	24MHz	CRYSTAL, CRYSTAL OSCILLATOR, 24MHz, -15PPM/DEGC/+15PPM/DEGC, -40DEGC/+85DEGC, SMD	EPSON	TSX-3225 24.0000MF15X-		+85DEGC	ROHS_COMPLIANT	COMPLIANT
12-00745	1 Y3	16MHz	CRYSTAL, OSCILLATOR, 16MHz, -30PPM/DEGC/+30PPM/DEGC, -40DEGC/+85DEGC, SMD	NIHON DEMPA KOGYO	NX3225GA-16.000M-STD-		+85DEGC	ROHS_COMPLIANT	COMPLIANT