

TIDEP-01022

Line	Parent Assy	Item	Qty	Type	P/N	Title	Ref(m)	ION Footprint	Mfr	Mfr-P/N
1		Top		PL	519470-0001R	ASSY,DRA821 GATEWAY-POWERTRAIN AUTOMOTIVE REFERENCE DESIGN				
2	519470-0001R	1	1	DWG	519471-0001R	PWB,DRA821 GATEWAY-POWERTRAIN AUTOMOTIVE REFERENCE DESIGN				
3	519470-0001R	2	1	DOC	519472-0001	LOGIC,DRA821 GATEWAY- POWERTRAIN AUTOMOTIVE REFERENCE DESIGN				
4	519470-0001R	5	1	PS	105420-0001R-TI	IC,BGA,J7VCL	U31	FCBGA439_P8MM	Texas Instruments	XDRA821VxxxGALM
5	519470-0001R	6	1	PS	105334-0008R	IC,BGA100,eMMC,8G BYTE,AUTOMOTIVE	U27	bga100_1mm	Micron Technology, Inc.	MTFC8GAMALNA-AIT
6	519470-0001R	7	1	PS	105444-0001R	IC,BGA273,AUTOMOTIVE ETHERNET SWITCH.8mm	U17	bga273-p8mm	Realtek	RTL9068ABD-V3-CG
7	519470-0001R	8	2	PS	105422-0001R	IC,DBV5,OP AMP	U34, U35	dbv-20x60-5	Texas Instruments	OPA322AQDBVRQ1
8	519470-0001R	9	1	PS	102020-0033R	IC,DBV6,SUPERVISORY CIRCUIT,3.3V	U108	DBV6-27X39-6	Texas Instruments	TPS3808G33DBVR
9	519470-0001R	10	3	PS	105404-0001R	IC,QFN16,12-BIT ADC,8-CHANNEL	U50, U51, U52	rte16-12x34	Texas Instruments	ADS7038IRTER
10	519470-0001R	11	1	PS	105377-0001R	IC,QFN16,4-BIT MULTIPLEXER/DEMULTIPLEXER	U38	rsv16	Texas Instruments	SN74CBTLV3257RSVR
11	519470-0001R	12	2	PS	102649-0245R	IC,QFN16,4-BIT TRANSCEIVER	U41, U43	rgy16-12x34	Texas Instruments	SN74AVC4T245RGYR
12	519470-0001R	13	1	PS	104965-0001R	IC,QFN24,BUCK REGULATOR,STEP DOWN	U39	rge24-11x28-4mm	Texas Instruments	LM5141QRGETQ1
13	519470-0001R	14	2	PS	105419-0001R-TI	IC,QFN36,AUTOMOTIVE ETHERNET PHY,1000BASE-T1	U15, U16	rnd36-24x10	Texas Instruments	PDP83TG720SWRNDTQ1
14	519470-0001R	15	1	PS	103172-0001R	IC,QFP64,DUAL USB UART	U42	PQFP64PM	Future Technology Devices International Limited	FT2232HL
15	519470-0001R	16	5	PS	102728-0001R	IC,SMT,ESD PROTECTION ARRAY,2- CHANNEL,15-kV	U45, U54, U55, U56, U57	drl5-12x40	Texas Instruments	TPD2E001DRLR

16	519470-0001R	17	9	PS	104615-0001R	IC,SMT,ESD PROTECTION,1-CHANNEL,14V	U10, U11, U12, U13, U23, U24, U28, U30, U48	dpy	Texas Instruments	TPD1E10B06DPY
17	519470-0001R	18	4	PS	105368-0008R	IC,SO5,2-INPUT POSITIVE AND GATE LOGIC LEVEL SHIFTER	U18, U19, U26, U37	DBV-20X60-5	Texas Instruments	SN74LV1T08DBVR
18	519470-0001R	19	1	PS	101689-0125R	IC,SO5,SINGLE BUS BUFFER GATE	U40	dck-5	Texas Instruments	SN74CBTLV1G125DCKR
19	519470-0001R	20	1	PS	105281-0001R	IC,SO6,DIODE CONTROLLER	U46	dbv6-27x39-6	Texas Instruments	LM74700QDBVTQ1
20	519470-0001R	21	1	PS	103554-0001R	IC,SO6,LINEAR REGULATOR,250mA,3.3V	U49	drv6-12x30	Texas Instruments	TPS73433DRVR
21	519470-0001R	22	1	PS	105439-0001R	IC,SO6,LINEAR REGULATOR,300mA,1.8V	U32	drv6-12x30	Texas Instruments	TLV73318PQDRVRQ1
22	519470-0001R	23	3	PS	104987-0001R	IC,SO6,MOSFET,DUAL,N/P-CHANNEL	Q2, Q3, Q4	sot363-16x45	NXP Semiconductors	NX3008CBKS,115
23	519470-0001R	24	2	PS	104958-0001R	IC,SO6,MOSFET,DUAL,N-CHANNEL	Q1, Q5	sot363-16x45	NXP Semiconductors	BSS138PS
24	519470-0001R	25	1	PS	105437-0001R	IC,SO6,REGULATOR,LDO,500mA,ADJUSTABLE	U25	drv6-12x30	Texas Instruments	TPS74501PQWDRVRQ1
25	519470-0001R	26	3	PS	104267-0001R	IC,SON8,LOAD SWITCH,SINGLE CHANNEL	U20, U36, U44	dsg8-11x20	Texas Instruments	TPS22965DSGT
26	519470-0001R	27	1	PS	103564-0001R	IC,SOT6,SERIAL EEPROM,1K,2 MHz	U47	DBV6-27X39-6	Microchip Technology, Inc.	93AA46BT-I/OT
27	519470-0001R	28	1	PS	104917-0001R	IC,SSOP16,AUTOMOTIVE USB 2.0 INTERFACE PROTECTION	U1	ssop-16	Texas Instruments	TPD3S716QDBQRQ1
28	519470-0001R	29	1	PS	105438-0001R-TI	IC,TBGA24,FLASH,SERIAL NOR,512M,1.8V,,AUTOMOTIVE,-40°C to +125°C	U53	TPBGA24_39-37_240X320_1-2	Cypress Semiconductor	S28HS512TGABHM010
29	519470-0001R	30	1	PS	105417-0001R	IC,VFBGA200,MOBILE LPDDR4 SDRAM,16G,1.1V	U33	WFBGA200_MT53DDS_400X570_1	Micron Technology, Inc.	MT53D512M32D2DS-053 AIT:D
30	519470-0001R	31	1	PS	105434-0001R	IC,VQFN20,SWITCHING REGULATOR,STEP-UP,ADJUSTABLE	U4	rh120-12x34	Texas Instruments	TPS61088QRHLRQ1
31	519470-0001R	32	1	PS	105327-0001R-TI	IC,VQFN56,PMIC	U22	VQFN56_19-68_320X320_0-9_EP6	Texas Instruments	PTPS659413FORWERQ1
32	519470-0001R	33	2	PS	105284-0001R	IC,VQFN9,STEP DOWN CONVERTER,2.75-V TO 6-V	U14, U29	vqfn9	Texas Instruments	TPS62810QWRWYRQ1

33	519470-0001R	34	5	PS	105406-0001R	IC,VSON14,DUAL CAN TRANSCEIVER	U5, U6, U7, U8, U9	dfn-14	Texas Instruments	TCAN1046VDMTRQ1
34	519470-0001R	35	2	PS	105403-0001R	IC,VSON14,DUAL LIN TRANSCEIVER	U2, U3	dfn-14	Texas Instruments	TLIN1022DMTRQ1
35	519470-0001R	40	1	PS	105367-0001R	TRANSISTOR,SO8FL,MOSFET,30V,25A	U21	DFN5_NTMFS4835N_2 40X200_1-1	ON Semiconductor	NVMFS4C05NT1G
36	519470-0001R	41	1	PS	104999-0001R	TRANSISTOR,SO8P,MOSFET,40V	Q6	pwr-q5a-slps319	Vishay Intertechnology	SQJ422EP-T1_GE3
37	519470-0001R	42	4	PS	105138-0001R	TRANSISTOR,TSDSON8,MOSFET,N- CHANNEL,60V,40A	Q7, Q8, Q9, Q10	tsdson8	Infineon Technologies Corporation	BSZ068N06NSATMA1
38	519470-0001R	45	1	PS	105273-1920R	CRYSTAL,SMT,19.2 MHZ,8pF	Y4	XTAL4_ABM10W_100X 80_SMD_0-6	Abracon	ABM10W-19.2000MHZ-8- D1X-T3
39	519470-0001R	46	3	PS	104951-2500R	CRYSTAL,SMT,25 MHZ,10pF	Y1, Y2, Y3	xtal4-abm11	Abracon	ABM11AIG-25.000MHZ- 4Z-T3
40	519470-0001R	47	1	PS	105332-3276R	CRYSTAL,SMT,32.768KHz	Y6	XTAL_ECS- 32_130X60_SMD_0-9	ECS	ECS-.327-9-34QCS-TR
41	519470-0001R	48	1	PS	103560-0012R	CRYSTAL,SMT,4 PIN,12MHz,20pF	Y5	xtal4-63x50-ecx53b	ECS	ECS-120-20-30B-TR
42	519470-0001R	50	1	PS	104729-0001R	DIODE,SMA,SCHOTTKY RECTIFIER,1A	D3	sma2-78sq	Diodes, Inc.	B170-13-F
43	519470-0001R	51	1	PS	105094-0014R	DIODE,SMB,TVS DIODE,14V,600W	D10	smb-uni	Diodes, Inc.	SMBJ14A-13-F
44	519470-0001R	52	1	PS	105094-0036R	DIODE,SMB,TVS DIODE,36V,600W	D11	smb-uni	Diodes, Inc.	SMBJ36A-13-F
45	519470-0001R	53	1	PS	104970-0001R	DIODE,SOD-323,SCHOTTKY,60V,1A	D4	sod323	NXP Semiconductors	PMEG6010CEJ,115
46	519470-0001R	54	4	PS	104730-0001R	DIODE,SOD-323,SWITCHING,200mA	D6, D7, D8, D9	sod323	NXP Semiconductors	BAS316,115
47	519470-0001R	55	1	PS	105322-0001R	DIODE,SOD-323,ZENER,10V,10mA	D2	sod323	ON Semiconductor	SZMM3Z10VST1G
48	519470-0001R	56	1	PS	105268-0068R	DIODE,SOT23,ZENER,6.8V	D1	sot23-28x44-1n3	ON Semiconductor	BZX84C6V8LT1G
49	519470-0001R	60	2	PS	100823-0001R	LED,SMT 1206,GREEN	DS1, D5	led1206-59x59	LITEON	LTST-C150GKT
50	519470-0001R	65	9	PS	105269-1201R	FERRITE BEAD,SMT 0603,120 OHM,3A,AUTOMOTIVE	FL8, FL9, FL10, FL11, FL12, FL13, FL14, FL15, FL16	l603-35x45	Murata Electronics	BLM18KG121TH1D

51	519470-0001R	66	6	PS	104392-1201R	FERRITE BEAD,SMT 0603,120 OHM,500mA	FL2, FL3, FL4, FL5, FL6, FL7	I603-35x45	Murata Electronics	BLM18BB121SN1D
52	519470-0001R	67	2	PS	101858-6001R	FERRITE BEAD,SMT 0603,600 OHM	L14, L16	I603-35x45	Murata Electronics	BLM18AG601SN1D
53	519470-0001R	68	1	PS	101735-1002R	FERRITE BEAD,SMT 0805,1K OHMS,1.5A	L17	I805-35x60	TDK Corporation	MPZ2012S102A
54	519470-0001R	69	1	PS	104184-1201R	FILTER,SMT,EMI,120 OHM,20V	FL1	EMI-36X15-DLW21	Murata Electronics	DLW21SN121HQ2
55	519470-0001R	70	5	PS	105324-1220R	INDUCTOR,SMT 1008,.22uH,+/- 20%,4.9A	L5, L6, L7, L9, L10	EIA1008	TDK Corporation	TFM252012ALMAR22MTAA
56	519470-0001R	71	1	PS	105336-0220R	INDUCTOR,SMT,2.2uH,22A	L13	IND_SRP1265A	Bourns	SRP1265A-2R2
57	519470-0001R	72	1	PS	104862-0330R	INDUCTOR,SMT,3.3uH,POWER,5.4A	L15	ind2-7030d	Murata Electronics	DFEG7030D-3R3M=P3
58	519470-0001R	73	1	PS	105285-1470R	INDUCTOR,SMT,POWER,.47uH,8.7A	L3	coil-xf4012	Coilcraft, Inc.	XFL4012-471MEB
59	519470-0001R	74	2	PS	105445-1600R	INDUCTOR,SMT,POWER,600nH	L4, L11	coil-xal50	Coilcraft, Inc.	XAL5030-601MEC
60	519470-0001R	75	4	PS	104953-0001R	CHOKE,SMT,COMMON MODE,AUTOMOTIVE ETHERNET	L1, L2, L8, L12	choke4-ae2002	TDK Corporation	ACT45L-201-2P-TL000

							C56, C57, C58, C61, C64, C67, C118, C119, C120, C121, C122, C123, C249, C250, C251, C252, C253, C254, C255, C256, C262, C263, C265, C268, C272, C276, C277, C278, C281, C283, C284,			
61	519470-0001R	80	122	PS	105047-1100R	CAP,CER,SMT 0201,.1uF,6.3V,+/- 10%,X7S,AUTOMOTIVE		c201-6p6spc	TDK Corporation	CGA1A1X7S0J104K
62	519470-0001R	81	1	PS	102058-1102R	CAP,CER,SMT 0402,.001uF,50V,+/- 10%,X7R	C170	c402-25	Kemet Electronics Corporation	C0402C102K5RAC

							C51, C240, C245, C246, C109, C125, C127, C128, C368, C369, C370, C374, C375, C393, C408, C416, C437, C438, C450, C453, C460, C466, C468, C470, C471, C472, C473, C479,			
63	519470-0001R	82	37	PS	104725-1101R	CAP,CER,SMT 0402,.01uF,50V,+/-10%,X7R,AUTOMOTIVE		c402-25	Murata Electronics	GCM155R71H103KA55D
64	519470-0001R	83	1	PS	102058-1331R	CAP,CER,SMT 0402,.033uF,50V,+/-10%,X7R,AUTOMOTIVE	C189	c402-25	TDK Corporation	CGA2B3X7R1H333K050B B
65	519470-0001R	84	1	PS	102058-1471R	CAP,CER,SMT 0402,.047uF,50V,+/-10%,X7R,AUTOMOTIVE	C182	c402-25	TDK Corporation	CGA2B3X7R1H473K050B B

66	519470-0001R	85	60	PS	104446-1100R	CAP,CER,SMT 0402,.1uF,16V,+/-10%,X7R,AUTOMOTIVE	C39, C41, C43, C44, C236, C239, C69, C73, C80, C108, C143, C156, C158, C164, C167, C274, C275, C314, C373, C483, C169, C172, C178, C179, C180, C190, C193, C194, C196, C198, C200,	c402-25	Murata Electronics	GCM155R71C104KA55
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67	519470-0001R	86	7	PS	104911-1470R	CAP,CER,SMT 0402,.47uF,10V,+/-10%,X7S,AUTOMOTIVE	C105, C106, C354, C360, C361, C442, C467	c402-25	Murata Electronics	GCM155C71A474KE36
68	519470-0001R	87	8	PS	101782-1104R	CAP,CER,SMT 0402,10pF,50V,+/-5%,NPO	C59, C129, C70, C76, C241, C242, C243, C244	c402-25	Kemet Electronics Corporation	C0402C100J5GAC
69	519470-0001R	88	2	PS	101782-1124R	CAP,CER,SMT 0402,12pF,50V,+/-5%,NPO	C137, C138	c402-25	Kemet Electronics Corporation	C0402C120J5GAC
70	519470-0001R	89	8	PS	101782-1153R	CAP,CER,SMT 0402,150pF,50V,NPO	C144, C147, C148, C149, C150, C151, C152, C153	c402-25	Murata Electronics	GCM1555C1H151JA16D

71	519470-0001R	90	42	PS	104911-0100R	CAP,CER,SMT 0402,1uF,10V,+/- 10%,X7S,AUTOMOTIVE	C82, C100, C224, C235, C237, C238, C260, C261, C304, C305, C330, C331, C102, C115, C124, C131, C155, C353, C357, C372, C379, C384, C387, C389, C422, C423, C443, C458,	c402-25	Murata Electronics	GCM155C71A105KE38D
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72	519470-0001R	91	7	PS	101782-1223R	CAP,CER,SMT 0402,220pF,50V,±5%,NPO	C72, C165, C533, C216, C217, C218, C219	c402-25	Murata Electronics	GRM1555C1H221JA01D
73	519470-0001R	92	2	PS	101782-1274R	CAP,CER,SMT 0402,27pF,50V,+/- 5%,NPO	C206, C215	c402-25	Kemet Electronics Corporation	C0402C270J5GACTU
74	519470-0001R	93	1	PS	101782-1334R	CAP,CER,SMT 0402,33pF,50V,+/- 5%,NPO	C6	c402-25	Kemet Electronics Corporation	C0402C330J5GAC
75	519470-0001R	94	12	PS	103217-1472R	CAP,CER,SMT 0402,4700pF,25V,+/- 10%,X7R	C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C60, C134	c402-25	Yageo	CC0402KRX7R8BB472
76	519470-0001R	95	1	PS	101587-5601R	CAP,CER,SMT 0402,560pF,25V,+/- 10%,X7R	C4	c402-25	Kemet Electronics Corporation	C0402C561K5RAC
77	519470-0001R	96	1	PS	101782-1684R	CAP,CER,SMT 0402,68pF,50V,+/- 5%,NPO	C188	c402-25	Kemet Electronics Corporation	C0402C680J5GACTU
78	519470-0001R	97	2	PS	105319-1094R	CAP,CER,SMT 0402,9pF,50V,±0.5pF,NPO,AUTOMOTIV E	C297, C307	c402-25	TDK Corporation	CGA2B2NP01H090D050B A

79	519470-0001R	98	21	PS	103885-1100R	CAP,CER,SMT 0603,.1uF,50V,+/-10%,X7R,AUTOMOTIVE	C2, C7, C8, C9, C10, C85, C88, C133, C136, C175, C220, C221, C247, C248, C513, C514, C16, C27, C52, C139, C534	c603-35x45	Murata Electronics	GCM188R71H104KA57D
80	519470-0001R	99	4	PS	103885-1220R	CAP,CER,SMT 0603,.22uF,50V,+/-10%,X7R,AUTOMOTIVE	C191, C195, C363, C365	c603-35x45	Murata Electronics	GCM188R71H224KA64
81	519470-0001R	100	4	PS	105312-0101R	CAP,CER,SMT 0603,10uF,16V,+/-20%,X6S,AUTOMOTIVE	C140, C382, C402, C509	c603-35x45	Murata Electronics	GRT188C81C106ME13D
82	519470-0001R	101	1	PS	102963-0101R	CAP,CER,SMT 0603,10uF,6.3V,X5R,+/-20%	C199	c603-35x45	Murata Electronics	GRM188R60J106ME47D
83	519470-0001R	102	7	PS	104865-0100R	CAP,CER,SMT 0603,1uF,25V,+/-10%,X7R,AUTOMOTIVE	C13, C68, C91, C101, C135, C145, C168	c603-35x45	Murata Electronics	GCM188R71E105KA64D

84	519470-0001R	103	16	PS	104448-0220R	CAP,CER,SMT 0603,2.2uF,6.3V,+/-10%,X7R,AUTOMOTIVE	C15, C29, C78, C79, C81, C86, C87, C306, C310, C317, C320, C322, C325, C326, C364, C403	c603-35x45	Murata Electronics	GCM188R70J225KE22D
85	519470-0001R	104	2	PS	104938-0470R	CAP,CER,SMT 0603,4.7uF,6.3V,+/-10%,X7S,AUTOMOTIVE	C173, C378	c603-35x45	Murata Electronics	GCM188R70J475KE02D
86	519470-0001R	105	1	PS	100993-1822R	CAP,CER,SMT 0603,8200pF,50V,+/-10%,X7R	C14	c603-35x45	Murata Electronics	GRM188R71H822KA01D
87	519470-0001R	106	12	PS	104720-0101R	CAP,CER,SMT 0805,10uF,10V,X7R,10%,AUTOMOTIVE	C74, C75, C77, C97, C98, C290, C291, C321, C334, C335, C292, C313	c805-35x60	Murata Electronics	GCM21BR71A106KE22L
88	519470-0001R	107	6	PS	104936-0101R	CAP,CER,SMT 0805,10uF,6.3V,+/-10%,X7R,AUTOMOTIVE	C30, C31, C37, C38, C40, C42	c805-35x60	TDK Corporation	CGA4J1X7R0J106K125AC
89	519470-0001R	108	4	PS	104866-0100R	CAP,CER,SMT 0805,1uF,50V,X7R,10%,AUTOMOTIVE	C177, C205, C222, C525	c805-35x60	Murata Electronics	GCM21BR71H105KA03L

90	519470-0001R	109	6	PS	105333-0221R	CAP,CER,SMT 0805,22uF,6.3V,X5R,20%	C95, C107, C163, C371, C519, C520	c805-35x60	Taiyo Yuden	JMK212BBJ226MGHT
91	519470-0001R	110	5	PS	101063-0470R	CAP,CER,SMT 0805,4.7uF,10V,X7R,10%	C192, C201, C202, C210, C214	c805-35x60	Taiyo Yuden	LMK212B7475KG-T
92	519470-0001R	111	14	PS	104719-0470R	CAP,CER,SMT 0805,4.7uF,16V,+/-10%,X7R,AUTOMOTIVE	C99, C126, C130, C132, C160, C161, C162, C362, C388, C494, C495, C496, C497, C174	c805-35x60	TDK Corporation	CGA4J3X7R1C475K125A B
93	519470-0001R	112	6	PS	104724-0101R	CAP,CER,SMT 1206,10uF,25V,+/-10%,X7R,AUTOMOTIVE	C3, C5, C28, C32, C33, C36	C1206-40X70	TDK Corporation	CGA5L1X7R1E106K160A C
94	519470-0001R	113	6	PS	104463-0221R	CAP,CER,SMT 1206,22uF,6.3V,X7R,20%,AUTOMOTIVE	C47, C48, C49, C103, C113, C116	c1206-40x70	Murata Electronics	GCM31CR70J226ME23L

95	519470-0001R	114	4	PS	105267-0471R	CAP,CER,SMT 1206,47uF,4V,X7S,+/-20%	C89, C92, C94, C117	c1206-40x70	Murata Electronics	GCM31CD70G476ME
96	519470-0001R	115	4	PS	104665-0101R	CAP,CER,SMT 1210,10uF,50V,X7R,+/-10%,AUTOMOTIVE	C500, C501, C502, C503	c1210-70x102	Taiyo Yuden	UMJ325KB7106KMHT
97	519470-0001R	116	5	PS	105112-0221R	CAP,CER,SMT 1210,22uF,16V,X7R,20%,AUTOMOTIVE	C53, C142, C154, C159, C166	c1210-70x102	TDK Corporation	CGA6P1X7R1C226M250 AC
98	519470-0001R	117	4	PS	105350-1472R	CAP,CER,SMT 1210,4700pF,2kV,X7R,+/-10%	C11, C12, C96, C141	c1210-70x102	Kemet Electronics Corporation	C1210X472KGRACAUTO
99	519470-0001R	118	10	PS	104955-0471R	CAP,CER,SMT 1210,47uF,6.3V,X7R,20%,AUTOMOTIVE	C65, C66, C90, C110, C111, C269, C270, C329, C346, C347	c1210-70x102	Murata Electronics	GCM32ER70J476M
100	519470-0001R	119	1	PS	105117-0122R	CAP,ELEC,SMT,120uF,35V,20%,AUTOMOTIVE	C171	cap-fk-d8-65x117	Panasonic	EEEFKV121XSP
101	519470-0001R	120	1	PS	105433-0271R	CAP,ELEC,SMT,27uF,25V	C1	capae_b6case	Panasonic	25SVPF27MX
102	519470-0001R	121	1	PS	104864-0472R	CAP,ELEC,SMT,470uF,35V,20%	C197	cap-elec-h13	Panasonic	EEV-FK1V471Q

103	519470-0001R	122	36	PS	105251-0100R	CAP,SMT 0402,3 TERMINAL,1uF,4V	C257, C258, C259, C264, C271, C273, C282, C295, C300, C308, C338, C340, C348, C349, C350, C351, C352, C358, C359, C366, C406, C413, C419, C420, C426, C427, C441, C444,	EMIFIL_NFM15CC_040 2_0-5	Murata Electronics	NFM15HC105D0G
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							C62, C63, C83, C84, C93, C104, C114, C146, C157, C339, C341, C342, C367			
104	519470-0001R	123	13	PS	105250-0101R	CAP,SMT 0603,3 TERMINAL,10uF,16V		NFM18HC	Murata Electronics	NFM18HC106D0G
							R48, R124, R138, R270, R244, R257, R290, R271			
105	519470-0001R	130	8	PS	103413-1003R	RES,SMT 0201,10K,1%,1/20 WATT		r201-18p5x15	Yageo	RC0201FR-0710KL

106	519470-0001R	131	28	PS	103158-1003R	RES,SMT 0201,10K,5%,1/20 WATT	R67, R70, R71, R72, R182, R188, R189, R190, R191, R194, R197, R198, R199, R200, R201, R211, R212, R215, R216, R288, R291, R292, R293, R294, R295, R296, R297, R298	r201-6p6spc	Yageo	RC0201JR-0710KL
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107	519470-0001R	132	11	PS	103158-1002R	RES,SMT 0201,1K,5%,1/20 WATT	R120, R125, R139, R141, R225, R228, R229, R284, R285, R286, R158	r201-6p6spc	Yageo	RC0201JR-071KL
108	519470-0001R	133	6	PS	103158-2202R	RES,SMT 0201,2.2K OHM,5%,1/20 WATT	R75, R80, R134, R136, R274, R275	r201-6p6spc	Yageo	RC0201JR-072K2L
109	519470-0001R	134	3	PS	103413-2401R	RES,SMT 0201,240 OHM,1%,1/20 WATT	R262, R266, R267	r201-18p5x15	Yageo	RC0201FR-07240RL
110	519470-0001R	135	2	PS	103413-3012R	RES,SMT 0201,3.01K,1%,1/20 WATT	R247, R314	r201-18p5x15	Panasonic	ERJ-1GNF3011C
111	519470-0001R	136	7	PS	103413-3600R	RES,SMT 0201,36 OHM,1%,1/20 WATT	R303, R306, R308, R310, R315, R317, R319	r201-18p5x15	Yageo	RC0201FR-0736RL
112	519470-0001R	137	1	PS	103413-4532R	RES,SMT 0201,4.53K,1%,1/20 WATT	R46	r201-18p5x15	Yageo	RC0201FR-074K53L
113	519470-0001R	138	5	PS	103158-4703R	RES,SMT 0201,47K OHM,5%,1/20 WATT	R305, R307, R309, R316, R320	r201-6p6spc	Yageo	RC0201JR-0747KL

							RJ11, RJ29, R4, R140, R143, R166, R251, R272, R273, R277, R279, R281, R289, R322, R76, R85, R86, R102, R107, R116, R123, R263, R268, R269			
114	519470-0001R	139	24	PS	101370-0001R	RES,SMT 0402,0 OHM,1/16 WATT		r402-25	Yageo	RC0402JR-070RL
115	519470-0001R	140	1	PS	102145-1502R	RES,SMT 0402,1.5K,1%,1/16 WATT	R69	r402-25	Yageo	RC0402FR-071K5L

116	519470-0001R	141	22	PS	102145-1001R	RES,SMT 0402,100 OHM,1%,1/16 WATT	R37, R39, R41, R43, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R61, R119, R129, R130, R210, R224, R239, R300	r402-25	Yageo	RC0402FR-07100RL
117	519470-0001R	142	8	PS	102145-1004R	RES,SMT 0402,100K,1%,1/16 WATT	R24, R25, R87, R103, R312, R60, R99, R133	r402-25	Yageo	RC0402FR-07100KL

							RJ3, RJ4, RJ5, RJ6, RJ7, RJ8, RJ9, RJ10, RJ12, RJ13, RJ14, RJ15, RJ16, RJ17, RJ18, RJ19, RJ20, RJ21, RJ22, RJ23, RJ24, RJ25, RJ26, RJ27, RJ28, R3, R74, R82, R84, R91, R105, R111, R121, R230, R235,			
118	519470-0001R	143	71	PS	102145-1003R	RES,SMT 0402,10K,1%,1/16 WATT	R235,	r402-25	Yageo	RC0402FR-0710KL
119	519470-0001R	144	1	PS	102145-1133R	RES,SMT 0402,11.3K OHM,1%,1/16 WATT	R115	r402-25	Yageo	RC0402FR-0711K3L
120	519470-0001R	145	1	PS	102145-1103R	RES,SMT 0402,11K OHM,1%,1/16 WATT	R313	r402-25	Panasonic	ERJ-2RKF1102X
121	519470-0001R	146	1	PS	102145-1203R	RES,SMT 0402,12K,1%,1/16 WATT	R160	r402-25	Yageo	RC0402FR-0712KL

122	519470-0001R	147	1	PS	102145-1583R	RES,SMT 0402,15.8K OHM,1%,1/16 WATT	R95	r402-25	Panasonic	ERJ-2RKF1582X
123	519470-0001R	148	1	PS	102145-1584R	RES,SMT 0402,158K,1%,1/16 WATT	R179	r402-25	Panasonic	ERJ-2RKF1583X
124	519470-0001R	149	1	PS	102145-1653R	RES,SMT 0402,16.5K OHM,1%,1/16 WATT	R2	r402-25	Panasonic	ERJ-2RKF1652X
							R9, R10, R11, R12, R79, R81, R98, R101, R154, R168, R170, R171, R172, R173, R174, R175, R321, R132			
125	519470-0001R	150	18	PS	102145-1002R	RES,SMT 0402,1K,1%,1/16 WATT		r402-25	Yageo	RC0402FR-071KL
126	519470-0001R	151	1	PS	102145-2202R	RES,SMT 0402,2.2K,1%,1/16 WATT	R167	r402-25	Vishay Intertechnology	CRCW04022K20FKED
127	519470-0001R	152	1	PS	102145-2001R	RES,SMT 0402,200 OHM,1%,1/16 WATT	R152	r402-25	Panasonic	ERJ-2RKF2000X
128	519470-0001R	153	1	PS	102145-2003R	RES,SMT 0402,20K OHM,1%,1/16 WATT	R151	r402-25	Yageo	RC0402FR-0720KL
129	519470-0001R	154	1	PS	102145-2153R	RES,SMT 0402,21.5K OHM,1%,1/16 WATT	R64	r402-25	Vishay Intertechnology	CRCW040221K5FKED
130	519470-0001R	155	4	PS	101370-2200R	RES,SMT 0402,22 OHM,5%,1/16 WATT	R153, R155, R159, R163	r402-25	Yageo	RC0402JR-0722RL
131	519470-0001R	156	2	PS	102145-2210R	RES,SMT 0402,22.1 OHM,1%,1/16 WATT	R127, R253	r402-25	Panasonic	ERJ-2RKF22R1X

132	519470-0001R	157	1	PS	102145-2204R	RES,SMT 0402,220K OHM,1%,1/16 WATT	R5	r402-25	Panasonic	ERJ-2RKF2203X
133	519470-0001R	158	1	PS	102145-2493R	RES,SMT 0402,24.9K OHM,1%,1/16 WATT	R90	r402-25	Panasonic	ERJ-2RKF2492X
							R104, R106, R108, R109, R110, R112, R114, R117, R169, R202, R203, R205, R206, R208, R209, R213, R214, R217, R218, R219, R220, R222, R223, R226, R227, R231, R232, R233,			
134	519470-0001R	159	37	PS	102145-2401R	RES,SMT 0402,240 OHM,1%,1/16 WATT	R233,	r402-25	Vishay Intertechnology	CRCW0402240RFKED
135	519470-0001R	160	1	PS	102145-2403R	RES,SMT 0402,24K,1%,1/16 WATT	R73	r402-25	Panasonic	ERJ-2RKF2402X

136	519470-0001R	161	1	PS	101370-0330R	RES,SMT 0402,3.3 OHM,5%,1/16 WATT	R276	r402-25	Vishay Intertechnology	CRCW04023R30JNED
137	519470-0001R	162	8	PS	102145-3322R	RES,SMT 0402,3.32K,1%,1/16 WATT	R38, R40, R42, R44, R68, R192, R193, R195	r402-25	Panasonic	ERJ-2RKF3321X
138	519470-0001R	163	1	PS	102145-3482R	RES,SMT 0402,3.48K,1%,1/16 WATT	R1	r402-25	Panasonic	ERJ-2RKF3481X
139	519470-0001R	164	2	PS	102145-3013R	RES,SMT 0402,30.1K OHM,1%,1/16 WATT	R65, R97	r402-25	Panasonic	ERJ-2RKF3012X
140	519470-0001R	165	1	PS	102145-3483R	RES,SMT 0402,34.8K OHM,1%,1/16 WATT	R150	r402-25	Panasonic	ERJ-2RKF3482X
141	519470-0001R	166	6	PS	102145-4702R	RES,SMT 0402,4.7K,1%,1/16 WATT	R278, R280, R282, R283, R299, R304	r402-25	Vishay Intertechnology	CRCW04024K70FKED
142	519470-0001R	167	1	PS	102145-4223R	RES,SMT 0402,42.2K OHM,1%,1/16 WATT	R142	r402-25	Vishay Intertechnology	CRCW040242K2FKED
143	519470-0001R	168	2	PS	102145-4701R	RES,SMT 0402,470 OHM,1%,1/16 WATT	R196, R204	r402-25	Panasonic	ERJ-2RKF4700X
144	519470-0001R	169	12	PS	102145-4703R	RES,SMT 0402,47K OHM,1%,1/16 WATT	R89, R96, R242, R243, R245, R246, R249, R252, R254, R256, R260, R261	r402-25	Panasonic	ERJ-2RKF4702X

145	519470-0001R	170	2	PS	102145-4990R	RES,SMT 0402,49.9 OHM,1%,1/16 WATT	R92, R93	r402-25	Panasonic	ERJ-2RKF49R9X
146	519470-0001R	171	1	PS	102145-5492R	RES,SMT 0402,5.49K,1%,1/16 WATT	R144	r402-25	Panasonic	ERJ-2RKF5491X
147	519470-0001R	172	1	PS	105270-5001R	RES,SMT 0402,500 OHM,.1%,1/20 WATT	R248	r402-25	Vishay Intertechnology	PNM0402E5000BST1
148	519470-0001R	173	1	PS	102145-5363R	RES,SMT 0402,53.6K OHM,1%,1/16 WATT	R88	r402-25	Yageo	RC0402FR-0753K6L
149	519470-0001R	174	1	PS	102145-6983R	RES,SMT 0402,69.8K,1%,1/16 WATT	R6	r402-25	Vishay Intertechnology	CRCW040269K8FKED
150	519470-0001R	175	1	PS	102145-7873R	RES,SMT 0402,78.7K OHM,1%,1/16 WATT	R13	r402-25	Vishay Intertechnology	CRCW040278K7FKED
151	519470-0001R	176	2	PS	102145-8062R	RES,SMT 0402,8.06K,1%,1/16 WATT	R66, R100	r402-25	Panasonic	ERJ-2RKF8061X
152	519470-0001R	177	1	PS	102145-8352R	RES,SMT 0402,8.35K,1%,1/16 WATT	R113	r402-25	Vishay Intertechnology	CRCW04028K35FKED
153	519470-0001R	178	1	PS	102145-8452R	RES,SMT 0402,8.45K,1%,1/16 WATT	R147	r402-25	Panasonic	ERJ-2RKF8451X
154	519470-0001R	179	1	PS	102145-9092R	RES,SMT 0402,9.09K OHM,1%,1/16 WATT	R118	r402-25	Panasonic	ERJ-2RKF9091X
155	519470-0001R	180	1	PS	100642-2373R	RES,SMT 0603,23.7K OHM,1%,1/16 WATT	R7	r603-35x45	Panasonic	ERJ-3EKF2372V
156	519470-0001R	181	1	PS	100642-2674R	RES,SMT 0603,267K OHM,1%,1/16 WATT	R45	r603-35x45	Panasonic	ERJ-3EKF2673V
157	519470-0001R	182	1	PS	100232-0100R	RES,SMT 1206,1 OHM,1%,1/4 WATT	R126	r1206-40x70	Yageo	RC1206FR-071RL
158	519470-0001R	183	20	PS	100155-6200R	RES,SMT 1206,62 OHM,5%,1/4 WATT	R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35	r1206-40x70	Panasonic	ERJ-8GEYJ620V
159	519470-0001R	190	1	PS	101184-0008R	SWITCH,DIP,SMT,HALF-PITCH,8 POS.	SW1	SW8-30X50	C&K/Unimax, Inc.	TDA08H0SB1R
160	519470-0001R	191	1	PS	101023-0001R	SWITCH,SMT,PUSHBUTTON,MOMENTARY	SW2	SW4-7914G	Bourns	7914G-1-000E

161	519470-0001R	200	3	PS	104788-0012R	CONN,HEADER,RIGHT ANGLE,2mm,12 PIN,BLACK	J4, J5, J6	molex-34826-0124	Molex	34826-0124
162	519470-0001R	201	1	PS	105153-0001R	CONN,JACK,RJ45,INTEGRATED MAGNETICS AND LED'S,8 CONTACTS,SHIELDED	J7	conn8-rt-rj45	Hanrun	HR911105A
163	519470-0001R	202	4	PS	105421-0001R	CONN,MATENET,1-PORT,RIGHT ANGLE	J2, J3, J9, J10	te_9-2304372-9	TE Connectivity	9-2304372-9
164	519470-0001R	203	1	PS	104303-0001R	CONN,POWER JACK,2.5mm,MALE,RIGHT ANGLE,8A	J15	pwrjack-cui-pj063bh	CUI, Inc.	PJ-063BH
165	519470-0001R	204	1	PS	103430-0001R	CONN,SMT,RECEPTACLE,36 PIN,PCI EXPRESS	P1	pcie_smt_36	Framatome Connectors International	10061913-100CLF
166	519470-0001R	205	2	PS	101956-0001R	CONN,SMT,RECEPTACLE,5 POS,RIGHT ANGLE,MINI USB,TYPE AB	J1, J16	samtec-MUSB	Samtec, Inc.	MUSB-05-S-AB-SM-A-K-TR
167	519470-0001R	206	1	PS	105161-0001R	CONN,SMT,RECEPTACLE,MICROSD,REVERSE	P2	molex-502774-0891	Molex	502774-0891
168	519470-0001R	207	1	PS	101884-0030R	CONN,SMT,SOCKET,30x2,.5mm,.198H	J13	qsh-030-01-f	Samtec, Inc.	QSH-030-01-L-D-A-K-TR
169	519470-0001R	208	2	PS	105441-0030R	CONN,SMT,VERTICAL,HEADER,30X2,.225 HIGH	J8, J11	samtec-TFM-130-02-X-D-WT	Samtec, Inc.	TFM-130-02-L-D-wt
170	519470-0001R	209	1	PS	100412-0002R	CONN,VERT,LOCKING,.1,2 POS	J14	CON2-200-250	Molex	22-23-2021
171	519470-0001R	210	1	PL	100116-0004R	HEADER,4 X 2,VERTICAL,PIN	J12	hdr2x4-6040		
172	519470-0001R	215	7	PS	104178-0001R	TEST POINT,SMT,MINIATURE	TP2, TP17, TP41, TP42, TP43, TP44, TP45	TP1-70X135	Keystone Electronics Corp.	5015
173	519470-0001R	220	5	PS	R0201-NOPOP	(NO-POP) RES,SMT 0201	R47, R49, R135, R137, R318	r201-6p6spc	None	None

174	519470-0001R	225	24	PS	C0402-NOPOP	(NO-POP) CAP,SMT 0402	C266, C267, C279, C280, C287, C288, C298, C299, C311, C312, C318, C319, C323, C324, C327, C328, C332, C333, C336, C337, C343, C344, C355, C356	c402-25	None	None
175	519470-0001R	230	7	PS	R0402-NOPOP	(NO-POP) RES,SMT 0402	R8, R287, R145, R149, R250, R255, R264	r402-25	None	None
176	519470-0001R	235	1	PS	C0603-NOPOP	(NO-POP) CAP,SMT 0603	C203	c603-35x45	None	None

177	519470-0001R	240	6	PS	TP-18RD8-NO-POP	(NO-POP) TEST POINT	TP27, TP28, TP29, TP30, TP31, TP33	tp-18RD8	None	None
178	519470-0001R	245	22	PS	TP-30RD13-NO-POP	(NO-POP) TEST POINT	TP1, TP3, TP4, TP5, TP7, TP8, TP13, TP16, TP20, TP23, TP39, TP40, TP6, TP9, TP12, TP14, TP19, TP21, TP26, TP35, TP37, TP38	tp-30RD13	None	None

179	519470-0001R	250	18	PS	NO-POP	(NO-POP)	J17, J18, M1, M2, M3, M4, M5, M6, TP10, TP11, TP15, TP18, TP22, TP24, TP25, TP32, TP34, TP36	NP	None	None
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