

(190K34517-04) PCB-PSM1000 TX MAIN BOARD

Part Type	Qty	Designators	Description	Mfr	#Mfr	Substitutions
134-34518_04	1	PCB1	Raw Board			
151BG105MA	18	C1009 C1050 C2008 C2015 C2025 C3048 C3049 C6009 C6050 C7003 C7015 C7025 C8048 C8049 C11060 C11061 C11062 C11063	CAPACITOR,ELECTROLYTIC,SMD,1uF,50V,20%	Nichicon	UWT1H010MCL2GB	See AVL
183A66	2	Q5002 Q10002	TRANSISTOR,HIGH FREQ,3 PIN MINI MOLD,NPN	California Eastern Labs (Renesas)	NE85619-A	Approval Required
188A388	2	IC5003 IC10003	SYNTHESIZER,DUAL,POWER,LOW,LMX2335LSLB	National Semiconductor Corp	LMX2335LSLBNOPB	Approval Required
95A8272	4	CON12009 CON12010 CON13000 CON13003	HEADER,SHROUDED,TOP ENTRY,2 POSITION	JST	B2B-EH-A(LF)(SN)	NONE PERMITTED
95A12707	4	CON1001 CON1003 CON6001 CON6003	CONNECTOR,RECEPT,XLR,W/1/4IN JACK,HORIZ PCB MOUNT	Neutrik AG	NCJ6FA-H	Approval Required
150EB100FA	2	C5102 C10102	CAPACITOR,SMD 402,10pF,50V,1%	Johanson Technology	500R07S100FV	See AVL
150EB628BA	2	C5044 C10044	CAPACITOR,SMD 402,6.2pF,50V,.1pf	Johanson Technology	500R07S6R2BV	See AVL
150NE150JA	2	C13116 C13117	CAPACITOR,SMD 603,15pF,200V,5%	AVX	06032U150JAT	See AVL
150NE308BA	2	C13100 C13101	CAPACITOR,SMD 603,3.0pF,200V,.1pf	AVX	06032U3R0BAT	See AVL
150NE478BA	2	C13103 C13105	CAPACITOR,SMD 603,4.7pF,200V,.1pf	AVX	06032U4R7BAT	See AVL
150QC221JB	3	C13068 C13075 C13076	CAPACITOR,SMD 402,220pF,50V,5%	Murata Manufacturing Co Ltd	GRM155R71H221J_	See AVL
150QC331JB	8	C3036 C3058 C4003 C4005 C8036 C8058 C9003 C9005	CAPACITOR,SMD 402,330pF,50V,5%	Murata Manufacturing Co Ltd	GRM155R71H331J_	See AVL
150QC680FA	12	C2009 C2014 C2020 C2026 C3004 C3045 C7009 C7014 C7020 C7026 C8004 C8045	CAPACITOR,SMD 402,68pF,50V,1%	AVX	04025A680FAT	See AVL
150QD105KC	4	C5032 C5035 C10032 C10035	CAPACITOR,SMD 402,1uF,10V,10%	Taiyo Yuden Co Ltd	LMK105BJ105KV-F	See AVL
151BE337MG	4	C12000 C12001 C13045 C13046	CAPACITOR,ELECTROLYTIC,SMD,330uF,25V,20%	NIC Components	NACE331M25V8X10.5F	See AVL
161A09	2	T11000 T11001	TRANSFORMER,SIGNAL,SINGLE PORT ETHERNET	Pulse Engineering Inc	H1102FNL	Approval Required
162A46	6	E5003 E5004 E5005 E10003 E10004 E10005	BEAD,FERRITE,SMD 603,600 OHM	Murata Manufacturing Co Ltd	BLM18AG601SN1	Approval Required
162A77	10	E5002 E5008 E10002 E10008 E11000 E11001 E12011 E12012 E12013 E12014	FERRITE,BEAD,SMD 805,600 OHM	Murata Manufacturing Co Ltd	BLM21AG601SN1	See AVL
162A10115	8	E1000 E1001 E1002 E1003 E6000 E6001 E6002 E6003	FERRITE,BEAD,1000 OHM@100MHz	Würth Elektronik	74279266	Approval Required
162A11970	6	E5006 E5007 E10006 E10007 R5023 R10023	FERRITE,BEAD,SMD0402,600 OHM@100MHz	Würth Elektronik	74279279	See AVL
162AR33481	2	L13012 L13013	INDUCTOR,SMD 402,RF,68nH,5%	Johanson Technology	L-07W68NJV4T	Approval Required
162B46	8	E12000 E12004 E12005 E12006 E12007 E12008 E12009 E12010	BEAD,FERRITE,SMD 603,1000 OHM	Murata Manufacturing Co Ltd	BLM18AG102SN1	Approval Required
162E11966	4	L5000 L5018 L10000 L10018	INDUCTOR,SMD 402,HIGH FREQ MONOLITHIC,100nH,+/-5%	Murata Manufacturing Co Ltd	LQG15HNR10J02	Approval Required
183A10010	2	Q5005 Q10005	TRANSISTOR,MOSFET,POWERTRENCH,P-CHANNEL,SUPERSOT-3	Fairchild Semi (On Semi)	FDN352AP	Approval Required
183A13298	2	Q13010 Q13011	TRANSISTOR,MOSFET,30V,P-CHANNEL,SOIC-8	Vishay Siliconix	SI4483ADY-T1-GE3	Approval Required
183A14029	2	Q5006 Q10006	TRANSISTOR,GENERAL PURPOSE,NPN,HI DC GAIN,VMT3	Rohm	2SD2707T2LV	Approval Required
184A69	12	D1004 D1009 D1010 D1011 D1012 D1013 D6004 D6009 D6010 D6011 D6012 D6013	DIODE,SCHOTTKY,DUAL,SOT-23			See AVL
184A14072	8	D11002 D11003 D11006 D11007 D11008 D11009 D11012 D11013	DIODE,TVS,3.3V,LOW CAP,SOT-143	Semtech Corp	SR3.3.TCT	Approval Required
188A381	2	IC4003 IC9003	AMPLIFIER,OPERATIONAL,QUAD,SO-14,LM837M	National Semiconductor Corp	LM837MNOPB	Approval Required
188A12260	4	IC3000 IC3002 IC8000 IC8002	PROCESSOR,DYNAMIC,ANALOG ENG,THAT,QLMP-24	THAT Corporation	4320N24-U	Approval Required
188A13388	4	IC5004 IC5010 IC10004 IC10010	ATTENUATOR,DIGITAL STEP,0.5dB/STEP,DC-2400MHz,DG938-1	Mini-Circuits	DAT-31R5A-SP+	Approval Required
188A13810	2	IC4004 IC9004	OP AMP,DUAL,RRIO,MSOP-8	National Semiconductor Corp	LM8272MMNOPB	Approval Required
188A14082	1	IC13001	REGULATOR,STEP-DOWN,TRIPLE MONO W/LDO,QFN-38	Linear Technology Corp	LT3507EUHF#PBF	Approval Required
53A12505	1	SHLD12000	FENCE,SHIELD,SCANNER	CUSTOM - SEE SHURE DRAWING	N/A	Approval Required

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53A12814	2	SHLD5001 SHLD10001	FENCE,EMI,TX	CUSTOM - SEE SHURE DRAWING	N/A	NONE PERMITTED
53A14334	2	SHLD5000 SHLD10000	FENCE,EMI,TX	Techcrystal Industries Ltd	53A14334	Approval Required
95A1112	2	CON12000 CON12003	CONNECTOR,TERMINAL STRIP,SINGLE ROW,4 PIN	Samtec Inc	TSW-104-07-S-S	NONE PERMITTED
95A8363	1	CON13004	HEADER,LOCKING,6 POSITION	Molex Inc	26-60-4060	NONE PERMITTED
95A8631	2	CON5000 CON10000	JACK,BNC,RIGHT ANGLE,50 OHM	Amp Inc (Tyco Electronics)	5415025-1	NONE PERMITTED
95A8993	2	CON11015 CON12004	CONNECTOR,HEADER,DUAL ROW,10 PIN	Samtec Inc	TSW-105-07-F-D	NONE PERMITTED
95A12219	1	CON13001	CONNECTOR,HEADER,TOP ENTRY,3 PIN	JST	B3P-VH(LF)(SN)	Approval Required
95A12258	1	CON11023	CONNECTOR,ETHERNET,W/LEDS,DUAL STACKED	Amphenol Corp	RJSAE-5381-02	Approval Required
95A15040	2	CON1000 CON6000	CONNECTOR,JACK,DUAL PHONE,1/4IN,W/NUT WASHER	Amphenol Corp	ACJS-MHDEM	Approval Required
145CF0R10	2	R13138 R13139	RESISTOR,SMD1206,0.1,1/4W,1%	Bourns	CRL1206-FW-R100ELF	See AVL
145CJ000	19	R1 R13075 R13076 R13080 R13081 R13082 R13083 R13084 R13095 R13096 R13106 R13107 R13108 R13109 R13110 R13111 R13112 R13113 R13114	RESISTOR,SMD1206,000,1/4W,5%	Vishay-BCC	CRCW12060000Z	See AVL
145FF4R7	4	R13002 R13003 R13122 R13123	RESISTOR,SMD 603,4.7,1/10W,1%	NIC Components	NRC06F4R7F	See AVL
145FF4R32	2	R13140 R13141	RESISTOR,SMD 603,4.32,1/10W,1%	NIC Components	NRC06F4R32F	See AVL
145FF49R9	4	R11137 R11138 R11139 R11140	RESISTOR,SMD 603,49.9,1/10W,1%	NIC Components	NRC06F49R9F	See AVL
145FF75R0	6	R11007 R11008 R11094 R11095 R11108 R11127	RESISTOR,SMD 603,75,1/10W,1%	NIC Components	NRC06F75R0F	See AVL
145FF1542	1	R11113	RESISTOR,SMD 603,15.4K,1/10W,1%	NIC Components	NRC06F1542F	See AVL
145FF3010	4	R11068 R11069 R11070 R11071	RESISTOR,SMD 603,301,1/10W,1%	NIC Components	NRC06F3010F	See AVL
145FF3320	2	R13000 R13130	RESISTOR,SMD 603,332,1/10W,1%	NIC Components	NRC06F3320F	See AVL
145FJ000	3	R12000 R12001 R12004	RESISTOR,SMD 603,000,1/10W,5%	Vishay-BCC	CRCW06030000Z	See AVL
145HF10R0	11	R4039 R4040 R4051 R5050 R9039 R9040 R9051 R10050 R13073 R13074 R13077	RESISTOR,SMD 402,10,1/16W,1%	Vishay-BCC	CRCW040210R0F	See AVL
145HF16R5	6	R5026 R5035 R5036 R10026 R10035 R10036	RESISTOR,SMD 402,16.5,1/16W,1%	NIC Components	NRC04F16R5F	See AVL
145HF18R2	2	R5029 R10029	RESISTOR,SMD 402,18.2,1/16W,1%	NIC Components	NRC04F18R2F	See AVL
145HF22R1	10	R5024 R5031 R5032 R5037 R5045 R10024 R10031 R10032 R10037 R10045	RESISTOR,SMD 402,22.1,1/16W,1%	NIC Components	NRC04F22R1F	See AVL
145HF49R9	76	R5018 R5051 R5065 R10018 R10051 R10065 R11000 R11001 R11002 R11003 R11004 R11005 R11006 R11009 R11010 R11011 R11012 R11013 R11014 R11017 R11018 R11019 R11020 R11022 R11023 R11025 R11026 R11027 R11028 R11035 R11036 R11037 R11040 R11051 R11053 R11054 R11055 R11056 R11057 R11058 R11059 R11060 R11061 R11062 R11063 R11072 R11076 R11078 R11079 R11080 R11081 R11082 R11083 R11085 R11086 R11087 R11088 R11093 R11099 R11100 R11112 R11114 R11115 R11119 R11120 R11121 R11122 R11123 R11124 R11125 R11126 R11128 R11129 R11130 R11131 R12021	RESISTOR,SMD 402,49.9,1/16W,1%	NIC Components	NRC04F49R9F	See AVL

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145HF1000	40	R1002 R1023 R1030 R1044 R1046 R1089 R3003 R3004 R3005 R3011 R3014 R3015 R4017 R4049 R5025 R5064 R5113 R6002 R6023 R6030 R6044 R6046 R6089 R8003 R8004 R8005 R8011 R8014 R8015 R9017 R9049 R10025 R10064 R10113 R12017 R12023 R12025 R13078 R13079 R13086	RESISTOR,SMD 402,100,1/16W,1%	Vishay-BCC	CRCW0402100RF	See AVL
145HF1001	36	R1039 R1069 R2022 R2028 R2036 R2044 R3012 R3013 R3018 R3019 R3050 R3085 R4001 R4013 R4046 R5014 R5063 R5066 R6039 R6069 R7022 R7028 R7036 R7044 R8012 R8013 R8018 R8019 R8050 R8085 R9001 R9013 R9046 R10014 R10063 R10066	RESISTOR,SMD 402,1K,1/16W,1%	Vishay-BCC	CRCW04021K00F	See AVL
145HF1002	68	R1050 R1056 R1066 R1070 R1071 R1072 R1080 R1081 R2007 R2008 R3032 R3049 R3064 R3088 R4012 R4014 R4038 R4045 R5016 R6050 R6056 R6066 R6071 R6072 R6080 R6081 R6083 R7000 R7007 R8032 R8049 R8064 R8088 R9012 R9014 R9038 R9045 R10016 R11047 R11116 R11117 R11118 R11132 R11133 R12006 R12019 R12020 R12024 R12026 R12027 R12028 R12029 R12030 R12031 R12032 R12033 R12034 R13001 R13070 R13071 R13072 R13085 R13087 R13098 R13099 R13100 R13101 R13131	RESISTOR,SMD 402,10K,1/16W,1%	Vishay-BCC	CRCW040210K0F	See AVL
145HF1003	58	R1000 R1006 R1008 R1009 R1018 R1025 R1026 R1035 R1055 R1062 R1063 R1073 R1076 R1082 R1084 R3016 R3022 R4004 R4005 R4044 R4052 R4055 R5030 R5059 R5061 R6000 R6006 R6008 R6009 R6018 R6025 R6026 R6035 R6055 R6062 R6063 R6073 R6076 R6082 R6084 R8016 R8022 R9004 R9005 R9044 R9052 R9055 R10030 R10059 R10061 R12002 R12003 R12005 R12007 R12042 R12043 R12044 R12045	RESISTOR,SMD 402,100K,1/16W,1%	Vishay-BCC	CRCW0402100KF	See AVL
145HF1004	12	R1020 R1094 R1095 R1096 R4011 R5001 R6093 R6094 R6095 R6096 R9011 R10001	RESISTOR,SMD 402,1M,1/16W,1%	Vishay-BCC	CRCW04021M00F	See AVL
145HF1073	9	R2012 R2013 R2032 R2033 R7012 R7013 R7032 R7033 R13094	RESISTOR,SMD 402,107K,1/16W,1%	Vishay-BCC	CRCW0402107KF	See AVL
145HF1210	6	R4037 R5008 R5044 R9037 R10008 R10044	RESISTOR,SMD 402,121,1/16W,1%	Vishay-BCC	CRCW0402121RF	See AVL
145HF1211	4	R3010 R3110 R8010 R8110	RESISTOR,SMD 402,1.21K,1/16W,1%	Vishay-BCC	CRCW04021K21F	See AVL
145HF1212	12	R3021 R3035 R3036 R3070 R4033 R4041 R8021 R8035 R8036 R8070 R9033 R9041	RESISTOR,SMD 402,12.1K,1/16W,1%	Vishay-BCC	CRCW040212K1F	See AVL
145HF1303	8	R1027 R1040 R1064 R1085 R6027 R6040 R6064 R6085	RESISTOR,SMD 402,130K,1/16W,1%	NIC Components	NRC04F1303F	See AVL

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145HF1332	22	R1003 R1011 R1033 R1061 R2002 R2006 R2035 R2037 R4018 R6003 R6011 R6033 R6061 R7002 R7006 R7035 R7037 R9018 R11052 R11065 R11066 R11084	RESISTOR,SMD 402,13.3K,1/16W,1%	NIC Components	NRC04F1332F	See AVL
145HF1500	10	R1032 R1042 R1067 R1075 R5013 R6059 R6060 R6068 R6075 R10013	RESISTOR,SMD 402,150,1/16W,1%	NIC Components	NRC04F1500F	See AVL
145HF1502	8	R3096 R3097 R3116 R3117 R8096 R8097 R8116 R8117	RESISTOR,SMD 402,15K,1/16W,1%	NIC Components	NRC04F1502F	See AVL
145HF1652	9	R3025 R3026 R4007 R4020 R8025 R8026 R9007 R9020 R13090	RESISTOR,SMD 402,16.5K,1/16W,1%	NIC Components	NRC04F1652F	See AVL
145HF1742	8	R3024 R3078 R3106 R3108 R8024 R8078 R8106 R8108	RESISTOR,SMD 402,17.4K,1/16W,1%	NIC Components	NRC04F1742F	See AVL
145HF1782	16	R2003 R2010 R2011 R2016 R2020 R2031 R2043 R2047 R7003 R7010 R7011 R7016 R7020 R7031 R7043 R7047	RESISTOR,SMD 402,17.8K,1/16W,1%	NIC Components	NRC04F1782F	See AVL
145HF1821	2	R5012 R10012	RESISTOR,SMD 402,1.82K,1/16W,1%	NIC Components	NRC04F1821F	See AVL
145HF1912	8	R3044 R3079 R3114 R3115 R8044 R8079 R8114 R8115	RESISTOR,SMD 402,19.1K,1/16W,1%	NIC Components	NRC04F1912F	See AVL
145HF2001	12	R1034 R1036 R1068 R1074 R4021 R5033 R6058 R6067 R6070 R6074 R9021 R10033	RESISTOR,SMD 402,2K,1/16W,1%	Vishay-BCC	CRCW04022K00F	See AVL
145HF2002	11	R2004 R2019 R2038 R2045 R4053 R7004 R7019 R7038 R7045 R9053 R13092	RESISTOR,SMD 402,20K,1/16W,1%	Vishay-BCC	CRCW040220K0F	See AVL
145HF2003	16	R1004 R1005 R1007 R1013 R1037 R1051 R1053 R1054 R6004 R6005 R6007 R6013 R6037 R6051 R6053 R6054	RESISTOR,SMD 402,200K,1/16W,1%	Vishay-BCC	CRCW0402200KF	See AVL
145HF2102	8	R3041 R3060 R3061 R3091 R8041 R8060 R8061 R8091	RESISTOR,SMD 402,21K,1/16W,1%	NIC Components	NRC04F2102F	See AVL
145HF2211	1	R13097	RESISTOR,SMD 402,2.21K,1/16W,1%	NIC Components	NRC04F2211F	See AVL
145HF2400	2	R13144 R13145	RESISTOR,SMD 402,240,1/16W,1%	NIC Components	NRC04F2400F	See AVL
145HF2491	15	R1043 R1048 R1049 R1059 R3039 R3051 R5068 R6022 R6034 R6036 R6047 R8039 R8051 R10068 R11109	RESISTOR,SMD 402,2.49K,1/16W,1%	Vishay-BCC	CRCW04022K49F	See AVL
145HF2492	3	R13089 R13091 R13102	RESISTOR,SMD 402,24.9K,1/16W,1%	Vishay-BCC	CRCW040224K9F	See AVL
145HF2493	2	R4023 R9023	RESISTOR,SMD 402,249K,1/16W,1%	Vishay-BCC	CRCW0402249KF	See AVL
145HF2740	2	R13146 R13147	RESISTOR,SMD 402,274,1/16W,1%	NIC Components	NRC04F2740F	See AVL
145HF3010	6	R4009 R5028 R5046 R9009 R10028 R10046	RESISTOR,SMD 402,301,1/16W,1%	NIC Components	NRC04F3010F	See AVL
145HF3011	12	R1045 R1077 R1087 R1088 R4034 R4035 R6045 R6077 R6087 R6088 R9034 R9035	RESISTOR,SMD 402,3.01K,1/16W,1%	Vishay-BCC	CRCW04023K01F	See AVL
145HF3013	2	R5015 R10015	RESISTOR,SMD 402,301K,1/16W,1%	Vishay-BCC	CRCW0402301KF	See AVL
145HF3162	5	R3065 R3094 R8065 R8094 R13093	RESISTOR,SMD 402,31.6K,1/16W,1%	NIC Components	NRC04F3162F	See AVL
145HF3652	4	R4006 R4050 R9006 R9050	RESISTOR,SMD 402,36.5K,1/16W,1%	NIC Components	NRC04F3652F	See AVL
145HF3921	2	R5002 R10002	RESISTOR,SMD 402,3.92K,1/16W,1%	NIC Components	NRC04F3921F	See AVL
145HF4021	10	R3038 R3045 R4016 R4036 R5000 R8038 R8045 R9016 R9036 R10000	RESISTOR,SMD 402,4.02K,1/16W,1%	NIC Components	NRC04F4021F	See AVL
145HF4022	6	R3046 R3047 R4019 R8046 R8047 R9019	RESISTOR,SMD 402,40.2K,1/16W,1%	NIC Components	NRC04F4022F	See AVL
145HF4421	8	R3073 R3093 R3095 R3098 R8073 R8093 R8095 R8098	RESISTOR,SMD 402,4.42K,1/16W,1%	NIC Components	NRC04F4421F	See AVL

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145HF4751	2	R5067 R10067	RESISTOR,SMD 402,4.75K,1/16W,1%	NIC Components	NRC04F4751F	See AVL
145HF4990	6	R3059 R3090 R5027 R8059 R8090 R10027	RESISTOR,SMD 402,499,1/16W,1%	Vishay-BCC	CRCW0402499RF	See AVL
145HF4991	45	R1012 R1029 R1031 R1041 R1052 R1060 R1065 R3017 R3023 R3037 R3056 R3071 R3072 R3101 R3102 R4010 R4027 R4043 R4056 R4057 R6012 R6029 R6031 R6041 R6042 R6052 R6065 R8017 R8023 R8037 R8056 R8071 R8072 R8101 R8102 R9010 R9027 R9043 R9056 R9057 R11067 R11073 R11077 R11091 R13088	RESISTOR,SMD 402,4.99K,1/16W,1%	Vishay-BCC	CRCW04024K99F	See AVL
145HF4992	20	R1019 R1078 R3062 R3063 R3068 R3100 R4008 R5042 R5053 R5057 R6019 R6078 R8062 R8063 R8068 R8100 R9008 R10042 R10053 R10057	RESISTOR,SMD 402,49.9K,1/16W,1%	Vishay-BCC	CRCW040249K9F	See AVL
145HF5111	4	R3020 R3034 R8020 R8034	RESISTOR,SMD 402,5.11K,1/16W,1%	Vishay-BCC	CRCW04025K11F	See AVL
145HF6042	17	R1022 R1047 R1057 R1058 R2001 R2005 R2018 R2039 R6043 R6048 R6049 R6057 R7001 R7005 R7018 R7039 R11031	RESISTOR,SMD 402,60.4K,1/16W,1%	NIC Components	NRC04F6042F	See AVL
145HF7501	5	R11090 R11097 R11098 R11111 R13103	RESISTOR,SMD 402,7.5K,1/16W,1%	NIC Components	NRC04F7501F	See AVL
145HF8061	8	R3040 R3048 R3052 R3082 R8040 R8048 R8052 R8082	RESISTOR,SMD 402,8.06K,1/16W,1%	NIC Components	NRC04F8061F	See AVL
145HF8871	8	R3074 R3075 R3076 R3077 R8074 R8075 R8076 R8077	RESISTOR,SMD 402,8.87K,1/16W,1%	NIC Components	NRC04F8871F	See AVL
145HJ000	135	R1001 R1010 R1014 R1015 R1016 R1017 R1021 R1024 R1028 R1038 R1079 R1083 R1086 R1090 R1091 R1092 R1093 R2000 R2034 R2040 R2041 R2049 R3000 R3001 R3002 R3006 R3007 R3008 R3009 R3027 R3029 R3030 R3031 R3033 R3043 R3105 R3118 R3119 R4000 R4002 R4003 R4015 R4022 R4024 R4025 R4026 R4028 R4030 R4031 R4042 R4047 R4054 R4058 R5003 R5005 R5006 R5019 R5034 R5038 R5040 R5041 R5043 R5054 R5055 R6001 R6010 R6014 R6015 R6016 R6017 R6020 R6021 R6024 R6028 R6032 R6038 R6079 R6086 R6090 R6091 R6092 R7017 R7034 R7040 R7041 R7049 R8000 R8001 R8002 R8006 R8007 R8008 R8009 R8027 R8029 R8030 R8031 R8033 R8043 R8105 R8118 R8119 R9000 R9002 R9003 R9015 R9022 R9024 R9025 R9026 R9028 R9030 R9031 R9042 R9047 R9054 R9058 R10003 R10005 R10006 R10019 R10034 R10038 R10040 R10041 R10043 R10054 R10055 R11015 R11024 R11029 R11038 R11039 R11041 R11045	RESISTOR,SMD 402,000,1/16W,5%	Vishay-BCC	CRCW04020000Z	See AVL

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Part Type	Qty	Designators	Description	Mfr	#Mfr	Substitutions
145HJ000	19	R11048 R11049 R11074 R11075 R11089 R11134 R11136 R12010 R12013 R12014 R12015 R12016 R12018 R12022 R12038 R12039 R12040 R12041 R13005	RESISTOR,SMD 402,000,1/16W,5%	Vishay-BCC	CRCW04020000Z	See AVL
145NB1001	4	R3087 R3107 R8087 R8107	RESISTOR,THINFILM,SMD 402,1K,1/16W,0.1%	NIC Components	NTR04B1001CF	See AVL
145NB1002	4	R3057 R3067 R8057 R8067	RESISTOR,THINFILM,SMD 402,10K,1/16W,0.1%	NIC Components	NTR04B1002CF	See AVL
145NB1003	8	R3055 R3092 R3103 R3104 R8055 R8092 R8103 R8104	RESISTOR,THINFILM,SMD 402,100K,1/16W,0.1%	NIC Components	NTR04B1003CF	See AVL
145NB2001	16	R3053 R3083 R3084 R3086 R3089 R3111 R3112 R3113 R8053 R8083 R8084 R8086 R8089 R8111 R8112 R8113	RESISTOR,THINFILM,SMD 402,2K,1/16W,0.1%	NIC Components	NTR04B2001CF	See AVL
145NB4021	4	R3058 R3069 R8058 R8069	RESISTOR,THINFILM,SMD 402,4.02K,1/16W,0.1%	NIC Components	NTR04B4021CF	See AVL
145NB4022	8	R3028 R3054 R3066 R3099 R8028 R8054 R8066 R8099	RESISTOR,THINFILM,SMD 402,40.2K,1/16W,0.1%	NIC Components	NTR04B4022CF	See AVL
150AD106KD	19	C3020 C3039 C3055 C3071 C4007 C4008 C4020 C5082 C8020 C8039 C8055 C8071 C9007 C9008 C9020 C10082 C13072 C13073 C13074	CAPACITOR,SMD1206,10uF,25V,10%	AVX	12063D106KAT	See AVL
150AG107MD	1	C13082	CAPACITOR,SMD1206,100uF,6.3V,20%	Murata Manufacturing Co Ltd	GRM31CR60J107M__	See AVL
150CA103FA	2	C5094 C10094	CAPACITOR,SMD1812,.01uF,50V,1%	Kemet Electronics Corp	C1812C103F5GAC	See AVL
150EB120FA	2	C5027 C10027	CAPACITOR,SMD 402,12pF,50V,1%	Johanson Technology	500R07S120FV	See AVL
150EB128AA	2	C5051 C10051	CAPACITOR,SMD 402,1.2pF,50V,.05pF	Johanson Technology	500R07S1R2AV	See AVL
150EB150FA	6	C5012 C5050 C5065 C10012 C10050 C10065	CAPACITOR,SMD 402,15pF,50V,1%	Johanson Technology	500R07S150FV	See AVL
150EB180FA	6	C5060 C5061 C5074 C10060 C10061 C10074	CAPACITOR,SMD 402,18pF,50V,1%	Johanson Technology	500R07S180FV	See AVL
150EB208BA	2	C5026 C10026	CAPACITOR,SMD 402,2pF,50V,.1pF	American Technical Ceramics	600L2R0BT200	See AVL
150EB220FA	6	C13092 C13093 C13112 C13113 R5056 R10056	CAPACITOR,SMD 402,22pF,50V,1%	Johanson Technology	500R07S220FV	See AVL
150EB368BA	4	C5045 C5108 C10045 C10108	CAPACITOR,SMD 402,3.6pF,50V,.1pF	Johanson Technology	500R07S3R6BV	See AVL
150EB478BA	2	C5114 C10114	CAPACITOR,SMD 402,4.7pF,50V,.1pF	Johanson Technology	500R07S4R7BV	See AVL
150EB509AA	2	C5013 C10013	CAPACITOR,SMD 402,.5pF,50V,.05pF	Johanson Technology	500R07S0R5AV	See AVL
150EB568BA	2	C5109 C10109	CAPACITOR,SMD 402,5.6pF,50V,.1pF	Johanson Technology	500R07S5R6BV	See AVL
150EB828BA	2	C5023 C10023	CAPACITOR,SMD 402,8.2pF,50V,.1pF	Johanson Technology	500R07S8R2BV	See AVL
150GA101FA	2	C13110 C13111	CAPACITOR,SMD 603,100pF,50V,1%	Kemet Electronics Corp	C0603C101F5GAC	See AVL
150GA102JA	2	C13098 C13099	CAPACITOR,SMD 603,.001uF,50V,5%	AVX	06035A102JAT	See AVL
150GA103KB	3	C13051 C13052 C13053	CAPACITOR,SMD 603,.01uF,50V,10%	AVX	06035C103KAT	See AVL
150GA471FA	8	C2001 C2004 C2005 C2016 C7001 C7004 C7005 C7016	CAPACITOR,SMD 603,470pF,50V,1%	AVX	06035A471FAT	See AVL
150GB101JA	3	C13054 C13055 C13056	CAPACITOR,SMD 603,100pF,100V,5%	Murata Manufacturing Co Ltd	GRM1885C2A101J__	See AVL
150GB103KB	4	C11035 C11036 C11037 C11038	CAPACITOR,SMD 603,.01uF,100V,10%	AVX	06031C103KAT	See AVL
150GB180JA	2	C13106 C13107	CAPACITOR,SMD 603,18pF,100V,5%	Murata Manufacturing Co Ltd	GRM1885C2A180J__	See AVL
150GC104KB	2	C11009 C11010	CAPACITOR,SMD 603,.1uF,16V,10%	AVX	0603YC104KAT	See AVL

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Part Type	Qty	Designators	Description	Mfr	#Mfr	Substitutions
150GD102FA	70	C2000 C2006 C2007 C2017 C2018 C2019 C2021 C2022 C3006 C3008 C3009 C3010 C3011 C3012 C3013 C3015 C3023 C3024 C3025 C3029 C3030 C3031 C3032 C3033 C3034 C3035 C3041 C3043 C3046 C3050 C3051 C3052 C3059 C3060 C5075 C7000 C7006 C7007 C7017 C7018 C7019 C7021 C7022 C8006 C8008 C8009 C8010 C8011 C8012 C8013 C8015 C8023 C8024 C8025 C8029 C8030 C8031 C8032 C8033 C8034 C8035 C8041 C8043 C8046 C8050 C8051 C8052 C8059 C8060 C10075	CAPACITOR,SMD 603,001uF,25V,1%	AVX	06033A102FAT	See AVL
150GD104JB	36	C1014 C1032 C1033 C1039 C1040 C1043 C1045 C1049 C6014 C6032 C6033 C6039 C6040 C6043 C6045 C6049 C11003 C11022 C11023 C11043 C11048 C11051 C11052 C11055 C11056 C12003 C12018 C12040 C12042 C12043 C12045 C13000 C13077 C13078 C13079 C13087	CAPACITOR,SMD 603,.1uF,25V,5%	AVX	06033C104JAT	See AVL
150QA223KB	4	C3003 C3017 C8003 C8017	CAPACITOR,SMD 402,.022uF,16V,10%	AVX	0402YC223KAT	See AVL
150QA473KB	8	C1005 C1019 C1030 C1037 C6005 C6019 C6030 C6037	CAPACITOR,SMD 402,.047uF,16V,10%	AVX	0402YC473KAT	See AVL
150QB103KB	112	C1001 C1002 C1003 C1004 C1006 C1031 C1044 C1047 C1048 C1051 C1052 C1053 C1056 C2002 C2003 C2010 C2023 C3000 C3001 C3007 C3014 C3016 C3022 C3027 C3028 C3037 C3038 C3040 C3042 C3047 C3054 C3069 C3070 C3072 C3073 C3078 C3079 C4002 C4013 C4021 C4023 C4024 C4025 C4026 C4027 C5036 C5055 C5070 C5101 C5116 C6001 C6002 C6003 C6004 C6006 C6016 C6031 C6044 C6047 C6048 C6052 C6053 C6054 C7002 C7010 C7023 C7024 C8000 C8001 C8007 C8014 C8016 C8022 C8027 C8028 C8037 C8038 C8040 C8042 C8047 C8054 C8069 C8070 C8072 C8073 C8078 C8079 C9002 C9013 C9021 C9023 C9024 C9025 C9026 C9027 C10036 C10055 C10070 C10101 C10116 C11011 C11065 C11068 C12004 C12019 C12037 C13069 C13070 C13071 C13083 C13084 C13085	CAPACITOR,SMD 402,.01uF,25V,10%	AVX	04023C103KAT	See AVL
150QC100JA	2	C5064 C10064	CAPACITOR,SMD 402,10pF,50V,5%	AVX	04025A100JAT	See AVL

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Part Type	Qty	Designators	Description	Mfr	#Mfr	Substitutions
150QC101JA	71	C1008 C1010 C1012 C1013 C1018 C1020 C1026 C1027 C1029 C1035 C1036 C1046 C3063 C3068 C4001 C4016 C5000 C5015 C5022 C5038 C5053 C5054 C5056 C5068 C5069 C5081 C5085 C5104 C5105 C5119 C5120 C6008 C6010 C6012 C6013 C6018 C6020 C6026 C6027 C6029 C6035 C6036 C6046 C8063 C8068 C9001 C9016 C10000 C10015 C10022 C10038 C10053 C10054 C10056 C10068 C10069 C10081 C10085 C10104 C10105 C10119 C10120 C12016 C12017 C12031 C12033 C12034 C12035 C12036 C13088 C13089	CAPACITOR,SMD 402,100pF,50V,5%	Murata Manufacturing Co Ltd	GRM1555C1H101J_	See AVL
150QC102JA	2	C13114 C13115	CAPACITOR,SMD 402,0.001uF,50V,5%	Murata Manufacturing Co Ltd	GRM1555C1H102J_	See AVL
150QC102JB	39	C4006 C4010 C4011 C4015 C4022 C5009 C5020 C5039 C5059 C5071 C5079 C5080 C5089 C5097 C5110 C5111 C9006 C9010 C9011 C9015 C9022 C10009 C10020 C10039 C10059 C10071 C10079 C10080 C10089 C10097 C10110 C10111 C11044 C11045 C11046 C11047 C12044 C12046 C13062	CAPACITOR,SMD 402,.001uF,50V,5%	AVX	04025C102JAT	See AVL
150QC108BA	3	C13057 C13058 C13059	CAPACITOR,SMD 402,1pF,50V,.1pf	AVX	04025A1R0BAT	See AVL
150QC200JA	3	C13060 C13064 C13065	CAPACITOR,SMD 402,20pF,50V,5%	AVX	04025A200JAT	See AVL
150QC270JA	2	C4009 C9009	CAPACITOR,SMD 402,27pF,50V,5%	AVX	04025A270JAT	See AVL
150QC330JA	30	C1000 C1011 C1022 C1023 C1028 C1034 C3002 C3018 C3064 C3065 C3066 C3067 C3074 C3075 C5098 C6000 C6011 C6022 C6023 C6028 C6034 C8002 C8018 C8064 C8065 C8066 C8067 C8074 C8075 C10098	CAPACITOR,SMD 402,33pF,50V,5%	AVX	04025A330JAT	See AVL
150QC470JA	8	C4004 C4019 C5001 C5028 C9004 C9019 C10001 C10028	CAPACITOR,SMD 402,47pF,50V,5%	Murata Manufacturing Co Ltd	GRM1555C1H470J_	See AVL
150QC471JA	4	C5010 C10010 C13061 C13063	CAPACITOR,SMD 402,470pF,50V,5%	Murata Manufacturing Co Ltd	GRM1555C1H471J_	See AVL
150QC560JA	10	C5014 C5018 C5037 C10014 C10018 C10037 C13094 C13095 C13096 C13097	CAPACITOR,SMD 402,56pF,50V,5%	Murata Manufacturing Co Ltd	GRM1555C1H560J_	See AVL
150QD104KB	38	C5021 C5031 C5034 C5058 C5077 C5092 C5096 C5103 C10021 C10031 C10034 C10058 C10077 C10092 C10096 C10103 C11000 C11001 C11002 C11017 C11018 C11019 C11020 C11021 C11026 C11027 C11028 C11029 C11030 C11031 C11032 C11034 C12009 C12010 C12014 C12015 C12023 C12026	CAPACITOR,SMD 402,.1uF,10V,10%	AVX	0402ZC104KAT	See AVL
150RD226KC	2	C13080 C13081	CAPACITOR,CHIP,SMD1210,22uF,25V,10%	Kemet Electronics Corp	C1210C226K3PAC	See AVL
150TE103GC	4	C3056 C3057 C8056 C8057	CAPACITOR,FILM,PPS,SMD0805,.01uF,16V,2%	NIC Components	NSHC103G16A2F	See AVL
150TE104GJ	2	C5083 C10083	CAPACITOR,FILM,PPS,SMD1210,.1uF,16V,2%	NIC Components	NSHC104G16C3F	See AVL
150WG103KC	2	C11004 C11005	CAPACITOR,SMD 2220,.01uF,2000v,10%	AVX	2220GC103KAT	Approval Required
150XB475KA	2	C5112 C10112	CAPACITOR,X5R,SMD 805,4.7uF,10V,10%	AVX	0805ZD475KAT	See AVL

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Part Type	Qty	Designators	Description	Mfr	#Mfr	Substitutions
150XD475KA	28	C1038 C1041 C3021 C3026 C3044 C3053 C4000 C4012 C5099 C6038 C6041 C8021 C8026 C8044 C8053 C9000 C9012 C10099 C11012 C11053 C11064 C11066 C11067 C12002 C12005 C12020 C12038 C12041	CAPACITOR,X5R,SMD 805,4.7uF,25V,10%	Taiyo Yuden Co Ltd	TMK212BJ475KG	See AVL
150ZC105KA	2	C4017 C9017	CAPACITOR,X5R,SMD 603,1uF,16V,10%	AVX	0603YD105KAT	See AVL
151AB226KC	12	C11024 C11033 C11039 C11057 C11058 C11059 C12008 C12011 C12012 C12013 C12022 C12027	CAPACITOR,TANTALUM,SMD2412,22uF,6.3V,10%	NIC Components	NTC-T226K6.3CF	See AVL
151AB337KD	2	C5072 C10072	CAPACITOR,TANTALUM,SMD2916,330uF,6.3V,10%	NIC Components	NTC-T337K6.3DF	See AVL
151AC226KA	6	C5062 C5117 C5118 C10062 C10117 C10118	CAPACITOR,TANTALUM,SMD1206,22uF,10V,10%	AVX	TAJA226K010NJ	See AVL
151AC476KB	2	C5033 C10033	CAPACITOR,TANTALUM,SMD1411,47uF,10V,10%	AVX	TAJB476K010NJ	See AVL
151AD105KA	2	C5100 C10100	CAPACITOR,TANTALUM,SMD1206,1uF,16V,10%	NIC Components	NTC-T105K16AF	See AVL
151AD106KA	11	C3061 C3062 C8061 C8062 C11013 C11041 C11049 C11050 C11054 C13090 C13091	CAPACITOR,TANTALUM,SMD1206,10uF,16V,10%	AVX	TAJA106K016NJ	See AVL
151AD226KB	2	C5087 C10087	CAPACITOR,TANTALUM,SMD1411,22uF,16V,10%	AVX	TAJB226K016NJ	See AVL
151AG335KB	2	C5043 C10043	CAPACITOR,TANTALUM,SMD1411,3.3uF,35V,10%	NIC Components	NTC-T335K35BF	See AVL
151BD226MB	14	C1054 C1055 C3005 C3019 C3076 C3077 C6015 C6051 C8005 C8019 C8076 C8077 C12006 C12007	CAPACITOR,ELECTROLYTIC,SMD,22uF,16V,20%	Panasonic	EEE1CA220WR	See AVL
151BD477MG	3	C13001 C13047 C13086	CAPACITOR,ELECTROLYTIC,SMD,470uF,16V,20%	NIC Components	NACE471M16V8X10.5F	See AVL
151BF106MC	6	C5011 C5019 C10011 C10019 C11008 C11025	CAPACITOR,ELECTROLYTIC,SMD,10uF,35V,20%	NIC Components	NACE100M35V5X5.5F	See AVL
151BF107MF	2	C13066 C13067	CAPACITOR,ELECTROLYTIC,SMD,100uF,35V,20%	NIC Components	NACE101M35V6.3X8F	See AVL
151BF475MB	3	C13048 C13049 C13050	CAPACITOR,ELECTROLYTIC,SMD,4.7uF,35V,20%	NIC Components	NACE4R7M35V4X5.5F	See AVL
151CG105MB	8	C1017 C1021 C1024 C1025 C6017 C6021 C6024 C6025	CAPACITOR,LYTIC,NON-POLAR,1uF,50V,20%	NIC Components	NACEN1R0M50V4X5.5F	Approval Required
162A14079	1	L13004	INDUCTOR,SHIELDED,4.7uH,4.2A,10MM	Würth Elektronik	7440650047	Approval Required
162A14521	2	L5023 L10023	INDUCTOR,HIGHER Q,SMD0402,220nH,5%	Coilcraft	0402HPH-R22XJL	Approval Required
162A30471	2	L13010 L13011	INDUCTOR,SMD0603,HI CURRENT,18nH,2%	Coilcraft	0603HC-18NXGL	Approval Required
162AP11710	2	R5049 R10049	INDUCTOR,SMD0402,HIGH Q,39nH,2%	Coilcraft	0402CS-39NXGL	Approval Required
162AS11280	2	L5017 L10017	INDUCTOR,SMD 603,WIRE WOUND,100nH,5%	Würth Elektronik	744761210A	Approval Required
162AV14300	2	L13008 L13009	INDUCTOR,HI Q,HI CURRENT,4.7nH,2%	Coilcraft	0603HP-4N7XGE	Approval Required
162AX11280	4	L5008 L5015 L10008 L10015	INDUCTOR,SMD 603,WIRE WOUND,150nH,5%	Würth Elektronik	744761215A	Approval Required
162B14079	2	L13003 L13005	INDUCTOR,SHIELDED,10uH,3.6A,10MM	Würth Elektronik	744066100	Approval Required
162BK11280	4	L5003 L5006 L10003 L10006	INDUCTOR,SMD 603,WIRE WOUND,12nH,2%	Würth Elektronik	744761112GA	Approval Required
162F20	6	L5009 L5010 L5011 L10009 L10010 L10011	INDUCTOR,SPRING,AIR CORE,5nH,2%	Coilcraft	A02TGLC	Approval Required
162G20	2	L5019 L10019	INDUCTOR,SPRING,AIR CORE,8nH,2%	Coilcraft	A03TGLC	Approval Required
162G58	4	L5013 L5014 L10013 L10014	INDUCTOR,SMD 603,22nH,2%	Coilcraft	0603CS-22NXGL	See AVL
162V11710	2	L5005 L10005	INDUCTOR,SMD0402,HIGH Q,8.2nH,2%	Coilcraft	0402CS-8N2XGL	Approval Required
170F12266	2	CON12005 CON12006	CONNECTOR,HEADER,HI-SPEED,11MM HEIGHT,120 PIN	Samtec Inc	QTE-060-03-L-D-A-K	Approval Required
170N30	1	CON12001	CONNECTOR,CABLE,RIBBON,16 CIRCUIT	Molex Inc	52808-1670	See AVL
170W30	1	CON12002	CONNECTOR,CABLE,RIBBON,24 CIRCUIT	Molex Inc	52808-2470	See AVL
183A01	1	Q13008	TRANSISTOR,LOW NOISE,SOT-23,PNP,5087	On Semiconductor	MMBT5087LG	See AVL
183A02	2	Q4001 Q9001	TRANSISTOR,LOW NOISE,SOT-23,NPN,5088	On Semiconductor	MMBT5088LG	See AVL

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Part Type	Qty	Designators	Description	Mfr	#Mfr	Substitutions
183A30	4	Q4000 Q9000 Q13012 Q13013	TRANSISTOR,TMOS,SOT-23,FET,2N7002	On Semiconductor	2N7002LG	See AVL
183A56	8	Q3000 Q3001 Q3002 Q3003 Q8000 Q8001 Q8002 Q8003	TRANSISTOR,NPN,DUAL,SC70-6	On Semiconductor	MBT3904DW1T1G	See AVL
183A10428	2	Q13000 Q13014	TRANSISTOR,MOSFET,HEXFET,N-CHANNEL,SOT-23	International Rectifier	IRLML2502PbF	Approval Required
183A13299	1	Q13009	TRANSISTOR,MOSFET,30V,N-CHANNEL,SOIC-8	Vishay Siliconix	SI4874BDY-T1-E3	Approval Required
183A39658	2	Q5004 Q10004	TRANSISTOR,DIGITAL,NPN,400mW,SOT-23	On Semiconductor	MMUN2230LT1G	Approval Required
184A08	8	D1002 D1003 D1006 D1007 D6002 D6003 D6006 D6007	DIODE,SIGNAL,SWITCHING,SOT-23,100VDC	On Semiconductor	MMBD7000LG	See AVL
184A66	1	D13011	DIODE,ZENER,SOT-23,18V	On Semiconductor	BZX84C18LT1G	Approval Required
184A85	3	D13012 D13013 D13014	DIODE,SCHOTTKY,DUAL,SOT-323	STMicroelectronics	BAT545WFILM	See AVL
184A86	2	D5003 D10003	DIODE,SERIES SWITCHING,DUAL,SOT323	On Semiconductor	BAV99WT1G	See AVL
184A12434	2	D12000 D12001	DIODE,TVS,LOW CAP,SLP1006P2	Semtech Corp	RClamp0821P.TCT	Approval Required
184A12727	4	D5005 D5010 D10005 D10010	DIODE,CAPACITANCE,VARIABLE,2.1 CAP RATIO,1-1G1A	Toshiba	1SV311(TH3,F,T)	Approval Required
184A13842	8	D1000 D1001 D1005 D1008 D6000 D6001 D6005 D6008	DIODE,SCHOTTKY,DUAL SERIES,SOT23-3	STMicroelectronics	BAR43SFILM	Approval Required
184A14080	3	D13015 D13016 D13017	RECTIFIER,SCHOTTKY,40V,3A,SMC	On Semiconductor	MBRS340TG	Approval Required
184B14073	4	D11010 D11011 D11014 D11015	DIODE,TVS ARRAY,3.3V,LOW CAP,SLP1616P6	Semtech Corp	RClamp3304P.TCT	Approval Required
187A12610	2	IC5008 IC10008	TCXO,30.400MHZ,3.2X2.5MM	KDS (Daishinku Corp)	1XTW30400AAA	Approval Required
187A13310	3	F12000 F12001 F12002	FUSE,RESETTABLE,600mA,60VDC	Littelfuse Inc	2920L030	Approval Required
187B24	2	RT5000 RT10000	THERMISTOR,SMD0603,4.7K,5%	Panasonic	ERTJ1VT472J	Approval Required
187B11645	2	D5007 D10007	PROTECTOR,ESD,0402,14V	Littelfuse Inc	PESD0402-140	Approval Required
188A435	2	IC11011 IC11012	IC,REGULATOR,MICROPOWER,LOW NOISE	National Semiconductor Corp	LP2985AIM5-5.0NOPB	Approval Required
188A509	2	IC5001 IC10001	IC,FLIP-FLOP,SINGLE D	On Semiconductor	NL17SZ74USG	Approval Required
188A576	2	IC5009 IC10009	IC,OP AMP,SING SUPPLY,SOT-23-5	Burr-Brown (Texas Instruments)	OPA244NA	Approval Required
188A601	1	U12000	IC,EEPROM,SPI SERIAL, 8Kbit,SO8	STMicroelectronics	M95080-WMN6P	Approval Required
188A635	1	IC12000	IC,DAC,8 CHANNEL,8-BIT,16-LEAD SSOP	Linear Technology Corp	LTC1665CGN#PBF	Approval Required
188A10004	4	IC1000 IC1003 IC6000 IC6003	AMPLIFIER,OPERATIONAL,DUAL,MICRO8	On Semiconductor	MC33178DMR2G	Approval Required
188A10119	4	IC3004 IC3005 IC8004 IC8005	OP AMP,DUAL,LOW OFFSET,8-LEAD DFN	Linear Technology Corp	LT6011CDD#PBF	Approval Required
188A10499	2	IC2000 IC7000	OP AMP,DUAL,RRIIO,MSOP-8	Linear Technology Corp	LT6203CMS8#PBF	Approval Required
188A11011	2	IC4001 IC9001	MICROCONTROLLER,RISC,HI PERFORMANCE,SSOP-28	Microchip Technology Inc	PIC18F24J10-I/SS	Approval Required
188A11461	1	IC11004	CONVERTER,A/D,SERIAL,20-SOIC	Texas Instruments Inc	TLC1518IDW	Approval Required
188A11658	12	IC1002 IC1005 IC2001 IC2002 IC3001 IC3003 IC6002 IC6005 IC7001 IC7002 IC8001 IC8003	OP AMP,QUAD,LOW NOISE,TSSOP-14	On Semiconductor	MC33179DTBR2G	Approval Required
188A12140	2	IC5002 IC10002	BUFFER,3-STATE OUTPUT,24mA,SC70-5	On Semiconductor	NL17SZ125DFT2G	Approval Required
188A12222	1	IC11010	BUFFER,QUAD,3-STATE,TSSOP-14	Fairchild Semi (On Semi)	74LCX125MTC	Approval Required
188A12280	4	IC5006 IC5007 IC10006 IC10007	LNA,MMIC,50MHz-4GHz,QFN-8	RF Micro Devices Inc (Qorvo Inc)	SPF-5122Z	Approval Required
188A12621	6	IC1004 IC4000 IC4002 IC6004 IC9000 IC9002	SWITCH,ANALOG,SPST,DUAL,NO,SOT23-8	Intersil	ISL43120IHZ	Approval Required
188A12666	1	IC11000	REGULATOR,SHUNT,ADJ,1.24V INT REF,1% TOL,SOT23-5	National Semiconductor Corp	LMV431AIM5NOPB	Approval Required
188A12744	2	IC5000 IC10000	REGULATOR,VOLTAGE,LDO,5VOUT,PULL-DOWN RES,SOT23-5	Torex	XC6204A502M	Approval Required
188A12764	8	RV1000 RV3000 RV3001 RV4000 RV6000 RV8000 RV8001 RV9000	POTENTIOMETER,DIGITAL,2 CHANNEL,20K,TSSOP-16	Analog Devices Inc	AD5262BRUZ20	Approval Required
188A13640	2	IC1006 IC6006	OP AMP,QUAD,DIFF,LOW POWER,TSSOP-14	STMicroelectronics	LM324APT	Approval Required
188A13938	2	IC11001 IC11002	CPLD,3.3V,4.5ns,80 GPIO,240 ELEMENT,FBGA-100	Altera Corporation	EPM240F100C5N	Approval Required
188A14103	2	IC11003 IC11007	CONVERTER,A/D,STEREO,96kHz,TSSOP-14	Burr-Brown (Texas Instruments)	PCM1807PW	Approval Required
188A14146	2	IC1007 IC6007	SWITCH,ANALOG,QUAD,SPST NO,TSSOP-16	Intersil	DG445DVZ	Approval Required
188A24170	2	U12001 U12002	AMPLIFIER,RF,2W,HI LINEARITY,QFN-24	Triquint Semiconductor (Qorvo Inc)	TQP7M9106	Approval Required