

04/10/2003

90A8966A
 MODIFIED UC1-UA PCB ASSEMBLY FOR MX692

Level	Item	Component no. Description	Quantity
1	001	34A8577J 06 PRINTED CIRCUIT BOARD CUSTOM - SEE SHURE DRAWING	1.000 EA
1	002	40A8010 01 CRYSTAL,32.768KHz ECS Inc #ECS-3X8 SUBSTITUTIONS MUST BE APPROVED Y201	1.000 EA
1	003	40A8012 02 CRYSTAL,4 MHz,YWC-308 Yuma Corporation #YWC-308 SUBSTITUTIONS MUST BE APPROVED Y101	1.000 EA
1	005	46H8014 12 POTENTIOMETER,TRIM,A LOG TAPER,100K Piher Corp #PT10LV13-104C2020-P10-PM SUBSTITUTIONS MUST BE APPROVED R7	1.000 EA
1	006	53A8482 03 SHIELD,VCO,STEEL,PLATED,TIN CUSTOM - SEE SHURE DRAWING	1.000 EA
1	007	55A189 02 SWITCH,TOGGLE,MICRO-SUBMINI,RT ANGL,DPDT NKK Switches of America #G22AH NO SUBSTITUTIONS PERMITTED SW202	1.000 EA
1	008	55A8087 01 SWITCH,SLIDE,SPDT NKK Switches of America #SS12SDP2 NO SUBSTITUTIONS PERMITTED SW203	1.000 EA
1	009	56A8072A 01 CONTACT,BATTERY,STAINLESS STEEL CUSTOM - SEE SHURE DRAWING SUBSTITUTIONS MUST BE APPROVED J202 J203	2.000 EA
1	010	56D8074 01 STRIP,INTERCONNECT,3 POSITION Samtec #MTMM-103-09-S-S-380 SUBSTITUTIONS MUST BE APPROVED	1.000 EA
1	014	140A14 01 RESONATOR,COAXIAL,SMD,1600MHz	1.000 EA

Trans-Tech Corp #SR8800SMQ1600BY
SUBSTITUTIONS MUST BE APPROVED
U501

1	015	145BJ000	06	1.000 EA
		RESISTOR,SMD 805,0,1/8W,5% NIC #NRC10Z0TRP10 OR ANY EQUIVALENT SUBSTITUTE R8		
1	016	145BJ305	06	2.000 EA
		RESISTOR,SMD 805,3M,1/8W,5% NIC #NRC10J305TRP10 OR ANY EQUIVALENT SUBSTITUTE R238 R285		
1	017	145FJ000	05	6.000 EA
		RESISTOR,SMD 603,000,1/10W,5% Dale #CRCW0603000RT1 OR ANY EQUIVALENT SUBSTITUTE R2 R9 R25 R198 R199 R226		
1	018	145FF1000	05	3.000 EA
		RESISTOR,SMD 603,100,1/10W,1% Dale #CRCW06031000FRT1 OR ANY EQUIVALENT SUBSTITUTE R138 R208 R303		
1	019	145FF1001	05	6.000 EA
		RESISTOR,SMD 603,1K,1/10W,1% Dale #CRCW06031001FRT1 OR ANY EQUIVALENT SUBSTITUTE R26 R34 R103 R108 R134 R150		
1	020	145FF1002	05	14.000 EA
		RESISTOR,SMD 603,10K,1/10W,1% Dale #CRCW06031002FRT1 OR ANY EQUIVALENT SUBSTITUTE R19 R107 R109 R110 R111 R112 R139 R141 R218 R219 R222 R239 R259 R503		
1	021	145FF1003	05	18.000 EA
		RESISTOR,SMD 603,100K,1/10W,1% Dale #CRCW06031003FRT1 OR ANY EQUIVALENT SUBSTITUTE R22 R23 R104 R113 R114 R204 R228 R230 R234 R235 R236 R237 R242 R244 R245 R255 R256 R277		
1	022	145FF1004	05	10.000 EA
		RESISTOR,SMD 603,1M,1/10W,1% Dale #CRCW06031004FRT1 OR ANY EQUIVALENT SUBSTITUTE R10 R24 R42 R43 R44 R45 R203 R206 R265 R271		
1	023	145FF1213	05	1.000 EA
		RESISTOR,SMD 603,121K,1/10W,1% Dale #CRCW06031213FRT1 OR		

		ANY EQUIVALENT SUBSTITUTE R274	
1	024	145FF1501 05 RESISTOR,SMD 603,1.5K,1/10W,1% Dale #CRCW06031501FRT1 OR ANY EQUIVALENT SUBSTITUTE	2.000 EA
		R202 R260	
1	025	145FF1502 05 RESISTOR,SMD 603,15K,1/10W,1% NIC #NRC06F1502TR OR ANY EQUIVALENT SUBSTITUTE	1.000 EA
		R243	
1	026	145FF2001 05 RESISTOR,SMD 603,2K,1/10W,1% Dale #CRCW06032001FRT1 OR ANY EQUIVALENT SUBSTITUTE	1.000 EA
		R137	
1	027	145FF2002 05 RESISTOR,SMD 603,20K,1/10W,1% Dale #CRCW06032002FRT1 OR ANY EQUIVALENT SUBSTITUTE	2.000 EA
		R116 R301	
1	028	145FF2003 05 RESISTOR,SMD 603,200K,1/10W,1% Dale #CRCW06032003FRT1 OR ANY EQUIVALENT SUBSTITUTE	3.000 EA
		R229 R276 R286	
1	029	145FF22R1 05 RESISTOR,SMD 603,22.1,1/10W,1% NIC #NRC06F22R1TR OR ANY EQUIVALENT SUBSTITUTE	2.000 EA
		R117 R133	
1	030	145FF2210 05 RESISTOR,SMD 603,221,1/10W,1% NIC #NRC06F2210TR OR ANY EQUIVALENT SUBSTITUTE	1.000 EA
		R504	
1	031	145FF2490 05 RESISTOR,SMD 603,249,1/10W,1% NIC #NRC06F2490TR OR ANY EQUIVALENT SUBSTITUTE	1.000 EA
		R221	
1	032	145FF2491 05 RESISTOR,SMD 603,2.49K,1/10W,1% Dale #CRCW06032491FRT1 OR ANY EQUIVALENT SUBSTITUTE	1.000 EA
		R140	
1	033	145FF2492 05 RESISTOR,SMD 603,24.9K,1/10W,1% Dale #CRCW06032492FRT1 OR	5.000 EA

		ANY EQUIVALENT SUBSTITUTE R249 R251 R275 R284 R287	
1	034	145FF3011 05 RESISTOR,SMD 603,3.01K,1/10W,1% Dale #CRCW06033011FRT1 OR ANY EQUIVALENT SUBSTITUTE R132 R136	2.000 EA
1	035	145FF3012 05 RESISTOR,SMD 603,30.1K,1/10W,1% Dale #CRCW06033012FRT1 OR ANY EQUIVALENT SUBSTITUTE R21 R223 R224 R225	4.000 EA
1	036	145FF3921 05 RESISTOR,SMD 603,3.92K,1/10W,1% NIC #NRC06F3921TR OR ANY EQUIVALENT SUBSTITUTE R501	1.000 EA
1	037	145FF4020 05 RESISTOR,SMD 603,402,1/10W,1% NIC #NRC06F4020TR OR ANY EQUIVALENT SUBSTITUTE R122 R257	2.000 EA
1	038	145FF4021 05 RESISTOR,SMD 603,4.02K,1/10W,1% NIC #NRC06F4021TR OR ANY EQUIVALENT SUBSTITUTE R20 R101 R143 R298	4.000 EA
1	040	145FF4321 05 RESISTOR,SMD 603,4.32K,1/10W,1% NIC #NRC06F4321TR OR ANY EQUIVALENT SUBSTITUTE R502	1.000 EA
1	041	145FF49R9 05 RESISTOR,SMD 603,49.9,1/10W,1% NIC #NRC06F49R9TR OR ANY EQUIVALENT SUBSTITUTE R115 R127 R128 R129 R130	5.000 EA
1	042	145FF4990 05 RESISTOR,SMD 603,499,1/10W,1% Dale #CRCW06034990FRT1 OR ANY EQUIVALENT SUBSTITUTE R4 R5 R6 R106 R258 R280 R302	7.000 EA
1	043	145FF4991 05 RESISTOR,SMD 603,4.99K,1/10W,1% Dale #CRCW06034991FRT1 OR ANY EQUIVALENT SUBSTITUTE R3 R124 R142	3.000 EA
1	044	145FF4992 05 RESISTOR,SMD 603,49.9K,1/10W,1% Dale #CRCW06034992FRT1 OR	8.000 EA

1	045	145FF4993 05	3.000 EA
		ANY EQUIVALENT SUBSTITUTE R105 R119 R120 R123 R125 R205 R207 R299 RESISTOR,SMD 603,499K,1/10W,1% Dale #CRCW06034993FRT1 OR ANY EQUIVALENT SUBSTITUTE R247 R250 R266	
1	046	145FF7500 05	2.000 EA
		RESISTOR,SMD 603,750,1/10W,1% NIC #NRC06F7500TR OR ANY EQUIVALENT SUBSTITUTE R121 R131	
1	047	145FF7502 05	1.000 EA
		RESISTOR,SMD 603,75K,1/10W,1% Dale #CRCW06037502FRT1 OR ANY EQUIVALENT SUBSTITUTE R248	
1	048	146B02 06	1.000 EA
		POTENTIOMETER,TRIM,CHIP,SMD,1K Bourns #3364W-1-102E ANY EQUIVALENT SUBSTITUTE R149	
1	049	150DB682KB 14	1.000 EA
		CAPACITOR,SMD 805,.0068uF,100V,10% NIC #NMC0805X7R682K100TRP OR ANY EQUIVALENT SUBSTITUTE C206	
1	050	150GB102JB 07	2.000 EA
		CAPACITOR,SMD 603,.001uF,100V,5% NIC #NMC0603X7R102J100TRP OR ANY EQUIVALENT SUBSTITUTE C230 C234	
1	051	150GA103KB 07	10.000 EA
		CAPACITOR,SMD 603,.01uF,50V,10% NIC #NMC0603X7R103K50TR OR ANY EQUIVALENT SUBSTITUTE C103 C105 C116 C120 C121 C131 C135 C177 C178 C289	
1	052	150GC104KB 06	21.000 EA
		CAPACITOR,SMD 603,.1uF,16V,10% NIC #NMC0603X7R104K16TRP OR ANY EQUIVALENT SUBSTITUTE C122 C128 C136 C145 C147 C149 C161 C163 C164 C179 C205 C209 C222 C235 C244 C245 C248 C251 C261 C262 C287	
1	053	150GB120JA 07	1.000 EA
		CAPACITOR,SMD 603,12pF,100V,5% Murata #GRM39C0G120J100AD OR ANY EQUIVALENT SUBSTITUTE C504	

1	054	150GB121JA	07	1.000 EA
		CAPACITOR,SMD 603,120pF,100V,5% Murata #GRM39C0G121J100AD OR ANY EQUIVALENT SUBSTITUTE C228		
1	055	150GB151JA	07	7.000 EA
		CAPACITOR,SMD 603,150pF,100V,5% Murata #GRM39C0G151J100AD OR ANY EQUIVALENT SUBSTITUTE C1 C2 C3 C249 C283 C285 C286		
1	056	150GA152JB	07	1.000 EA
		CAPACITOR,SMD 603,.0015uF,50V,5% Murata #GRM39X7R152J050AD OR ANY EQUIVALENT SUBSTITUTE C214		
1	057	150GB158BA	07	1.000 EA
		CAPACITOR,SMD 603,1.5pF,100V,.1pf NIC #NMC-L0603NPO1R5B100 ANY EQUIVALENT SUBSTITUTE C502		
1	058	150GB228BA	07	2.000 EA
		CAPACITOR,SMD 603,2.2pF,100V,.1pf NIC #NMC-L0603NPO2R2B100 ANY EQUIVALENT SUBSTITUTE C508 C512		
1	059	150GB270JA	07	26.000 EA
		CAPACITOR,SMD 603,27pF,100V,5% Murata #GRM39C0G270J100AD OR ANY EQUIVALENT SUBSTITUTE C5 C102 C104 C125 C126 C127 C132 C137 C146 C150 C152 C160 C162 C165 C167 C173 C174 C175 C201 C202 C207 C217 C218 C226 C301 C302		
1	060	150GB330JA	07	3.000 EA
		CAPACITOR,SMD 603,33pF,100V,5% Murata #GRM39C0G330J100AD OR ANY EQUIVALENT SUBSTITUTE C501 C503 C511		
1	061	150GB331JA	07	1.000 EA
		CAPACITOR,SMD 603,330pF,100V,5% NIC #NMC0603NPO331J100TRP OR ANY EQUIVALENT SUBSTITUTE C229		
1	062	150GA471JA	07	2.000 EA
		CAPACITOR,SMD 603,470pF,50V,5% Murata #GRM39C0G471J50AD OR ANY EQUIVALENT SUBSTITUTE C232 C290		
1	063	150GC473KB	06	2.000 EA
		CAPACITOR,SMD 603,.047uF,16V,10%		

		NIC #NMC0603X7R473K16TRP OR ANY EQUIVALENT SUBSTITUTE C216 C233	
1	064	150GB478BA 07 CAPACITOR,SMD 603,4.7pF,100V,.1pf NIC #NMC-L0603NPO4R7B100 ANY EQUIVALENT SUBSTITUTE	7.000 EA
1	065	C134 C144 C157 C231 C505 C506 C507 150GB680JA 07 CAPACITOR,SMD 603,68pF,100V,5% Murata #GRM39C0G680J100AD OR ANY EQUIVALENT SUBSTITUTE	2.000 EA
1	066	C124 C236 150GD681JA 06 CAPACITOR,SMD 603,680pF,25V,5% Murata #GRM39C0G681J25AD OR ANY EQUIVALENT SUBSTITUTE	2.000 EA
1	067	C4 C204 151AD105KA 13 CAPACITOR,TANTALUM,SMD1206,1uF,16V,10% NIC #NTCT105K16TRA OR ANY EQUIVALENT SUBSTITUTE	5.000 EA
1	068	C208 C220 C255 C256 C257 151AD106KB 13 CAPACITOR,TANTALUM,SMD1411,10uF,16V,10% NIC #NTCT106K16TRB OR ANY EQUIVALENT SUBSTITUTE	3.000 EA
1	069	C203 C219 C233 151AC107MD 13 CAPACITOR,TANTALUM,SMD2916,100uF,10V,20% NIC #NTCT107M10TRD OR ANY EQUIVALENT SUBSTITUTE	2.000 EA
1	070	C225 C246 151AB225MA 13 CAPACITOR,TANTALUM,SMD1206,2.2uF,6V,20% NIC #NTCT225M20TRA OR ANY EQUIVALENT SUBSTITUTE	3.000 EA
1	071	C6 C9 C240 151AE226KD 13 CAPACITOR,TANTALUM,SMD2916,22uF,20V,10% NIC #NTCT226K20TRD OR ANY EQUIVALENT SUBSTITUTE	1.000 EA
1	072	C130 151AD474KA 13 CAPACITOR,TANTALUM,SMD1206,.47uF,16V,10% NIC #NTCT474K35TRA OR ANY EQUIVALENT SUBSTITUTE	1.000 EA
1	073	C129 151AD475KB 13 CAPACITOR,TANTALUM,SMD1411,4.7uF,16V,10%	3.000 EA

		NIC #NTCT475K16TRB OR ANY EQUIVALENT SUBSTITUTE C101 C119 C176	
1	074	152F03 04 CAPACITOR,TRIM,SMD,5-40pF AVX #CTZ3S-40C-X-1-PF SUBSTITUTIONS MUST BE APPROVED C123	1.000 EA
1	075	152A04 03 CAPACITOR,TRIM,SMD,.65-2.5pF Murata #TZV02Z2R5A110T00 SUBSTITUTIONS MUST BE APPROVED C510	1.000 EA
1	078	162D10 05 INDUCTOR,SMD 805,22nH Coilcraft #0805CS-220XMBC SUBSTITUTIONS MUST BE APPROVED L115	1.000 EA
1	079	162R10 05 INDUCTOR,SMD 805,180nH Coilcraft #0805CS-181XKB SUBSTITUTIONS MUST BE APPROVED L205 L208	2.000 EA
1	080	162A25 04 INDUCTOR,SMD 603,100nH,10% Toko Inc. #LL1608-FR10K SEE SHURE DRAWING FOR SUBSTITUTES L102 L103 L104 L107 L110 L111 L114 L118 L121 L501 L503	11.000 EA
1	081	162N25 04 INDUCTOR,SMD 603,10nH,10% Toko Inc. #LL1608-FH10NK SEE SHURE DRAWING FOR SUBSTITUTES L106 L117 L119 L502	4.000 EA
1	082	162A28 04 FILTER,LC,LOW PASS,SMD,50 OHM Murata #LFTB25N19E0810B SUBSTITUTIONS MUST BE APPROVED U107 U108 U109	3.000 EA
1	083	170A07 03 HEADER,11 POSITION Framatome Connectors #91911-31311 SUBSTITUTIONS MUST BE APPROVED J101	1.000 EA
1	084	170A08 03 RECEPTACLE,11 POSITION Framatome Connectors #91931-31111 SUBSTITUTIONS MUST BE APPROVED J201	1.000 EA
1	085	170C15 01	1.000 EA

STRIP, SOCKET, SIDE ENTRY, 3 PIN
Samtec #MMS-103-02-L-SH-TR
SUBSTITUTIONS MUST BE APPROVED
J204

1	086	183A01	10	1.000 EA
		TRANSISTOR, LOW NOISE, SOT-23, PNP, 5087		
		On Semiconductor #MMBT5087L		
		SUBSTITUTIONS MUST BE APPROVED		
		Q101		
1	087	183A02	11	6.000 EA
		TRANSISTOR, LOW NOISE, SOT-23, NPN, 5088		
		Motorola #MMBT5088LT1 OR		
		National Semiconductor #MMBT5088LT1		
		Q201 Q202 Q204 Q220 Q222 Q223		
1	088	183A30	02	4.000 EA
		TRANSISTOR, TMOS, SOT-23, FET, 2N7002		
		On Semiconductor #2N7002L		
		SUBSTITUTIONS MUST BE APPROVED		
		Q1 Q4 Q211 Q215		
1	089	183A46	05	3.000 EA
		TRANSISTOR, MOSFET, POWER, SOT-23, N-CHANNEL		
		Fairchild Semiconductor #NDS355N		
		SUBSTITUTIONS MUST BE APPROVED		
		Q103 Q105 Q217		
1	090	183A48	06	3.000 EA
		TRANSISTOR, HIGH FREQUENCY, SOT-23, NPN, R24		
		NEC (California Eastern Labs) #2SC4226		
		(NE85630)		
		SUBSTITUTIONS MUST BE APPROVED		
		Q102 Q501 Q502		
1	091	183A49	02	1.000 EA
		TRANSISTOR, GENERAL PURPOSE, SOT23, AT41533		
		Hewlett Packard #AT-41533-TR1		
		SUBSTITUTIONS MUST BE APPROVED		
		Q104		
1	092	184A07	04	4.000 EA
		DIODE, DUAL, SWITCHING, SOT-23, 75VDC		
		Motorola #MMBD2836LT1 OR		
		Allegro #TMPT2836LT		
		D101 D102 D103 D104		
1	093	184A08	03	2.000 EA
		DIODE, SIGNAL, SWITCHING, SOT-23, 100VDC		
		Motorola #MMBD7000LT1 STYLE 11 OR		
		National Semiconductor #MMBD7000LT1		
		D105 D206		
1	094	184D32	04	1.000 EA
		LED, RIGHT ANGLE, RED		
		Industrial Devices (Chicago Miniature)		
		#6250F1		
		SUBSTITUTIONS MUST BE APPROVED		

1	095	D203 184E32 04	1.000 EA
		LED,RIGHT ANGLE,YELLOW Industrial Devices (Chicago Miniature) #6250F7 SUBSTITUTIONS MUST BE APPROVED	
1	096	D202 184F32 04	1.000 EA
		LED,RIGHT ANGLE,GREEN Industrial Devices (Chicago Miniature) #6250F5 SUBSTITUTIONS MUST BE APPROVED	
1	097	D201 184A36 02	1.000 EA
		DIODE,TUNING,RF,SOD-323,30VDC Siemens #BB545 SUBSTITUTIONS MUST BE APPROVED	
1	098	D501 188A18 08	1.000 EA
		AMPLIFIER,OPERATIONAL,DUAL,SO-8,SC79161 Motorola #SC79161DR2 SUBSTITUTIONS MUST BE APPROVED	
1	099	U2 188A49 03	1.000 EA
		AMPLIFIER,OPERATIONAL,QUAD,SO-14,MC33179 On Semiconductor #MC33179D SUBSTITUTIONS MUST BE APPROVED	
1	100	U201 188A428 04	1.000 EA
		REGULATOR,VOLTAGE,5V,SWITCH,ON/OFF Toko Inc #TK11350BMC SUBSTITUTIONS MUST BE APPROVED	
1	101	U205 188A118 02	1.000 EA
		AMPLIFIER,OPERATIONAL,DUAL,SO-8,TLC2272 Texas Instrument #TLC2272CDR SUBSTITUTIONS MUST BE APPROVED	
1	102	U106 188A123 01	1.000 EA
		COMPARATOR,QUAD,LOW POWER,SO-14,LP339MX National Semiconductor #LP339MX SUBSTITUTIONS MUST BE APPROVED	
1	103	U208 188A126 02	1.000 EA
		COMPANDER,LOW VOLTAGE,SSOP-20,NE575DK Phillips Semiconductor #SA575DK SUBSTITUTIONS MUST BE APPROVED	
1	104	U203 188A131 02	1.000 EA
		MEMORY,EEPROM,SO-8,CAT24C04J	

Catalyst #CAT24WC04J-TE13
SUBSTITUTIONS MUST BE APPROVED

1	105	188C210	03	1.000 EA
		DETECTOR,VOLTAGE,SOT23,TC54V-N4302ECB Microchip Technology #TC54V-N4302ECB SUBSTITUTIONS MUST BE APPROVED		
1	106	188D238G	07	1.000 EA
		MICROPROCESSOR,8-BIT,UC1,MC68HC705J1ACDW Motorola #MC68HC705J1ACDW SUBSTITUTIONS MUST BE APPROVED		
1	107	188A265	02	1.000 EA
		SYNTHESIZER,FREQUENCY,PLL,SO-16,MB15A02 Fujitsu Ltd #MB15A02PFER SUBSTITUTIONS MUST BE APPROVED		
1	108	183A53	01	1.000 EA
		TRANSISTOR,FET,DMOS,SOT-23,NDS356AP Fairchild Semiconductor #NDS356AP SUBSTITUTIONS MUST BE APPROVED		
1	109	36A8080	01	2.000 EA
		SHOCKMOUNT,ELASTOMER,SILICON CUSTOM - SEE SHURE DRAWING		
1	110	150GB188BA	07	1.000 EA
		CAPACITOR,SMD 603,1.8pF,100V,.1pf NIC #NMC-L0603NPO1R8B100 ANY EQUIVALENT SUBSTITUTE		
1	111	140C15	02	1.000 EA
		RESONATOR,CERAMIC,SMD,4MHz Murata #CSTCC4.00MG-TC SUBSTITUTIONS MUST BE APPROVED		
1	112	155A11	04	1.000 EA
		SWITCH,DIP,ROTARY,16 POSITION Augat Inc #MRD91535F SUBSTITUTIONS MUST BE APPROVED		
1	113	155B11	04	1.000 EA
		SWITCH,DIP,ROTARY,10 POSITION Augat Inc #MRD91534F SUBSTITUTIONS MUST BE APPROVED		
1	114	28A8197	01	1.000 EA
		LABEL - BAR CODE		
1	115	145FF1000	05	2.000 EA
		RESISTOR,SMD 603,100,1/10W,1%		

Dale #CRCW06031000F
SEE SHURE AVL FOR ALTERNATE VENDORS
R208 R303

1	200	RESISTOR - NO STUFF R1 R11 R12 R13 R14 R15 R16 R17 R18 R27 R28 R29 R30 R31 R32 R33 R35 R36 R37 R38 R39 R40 R41 R144 R145 R151 R152 R153 R154 R155 R156 R157 R401 R402 R403	35.000 EA
1	201	CAPACITOR - NO STUFF C7 C8 C12 C117 C118 C148 C215 C254 C401 C402	10.000 EA
1	202	CRYSTAL - NO STUFF Y102	1.000 EA
1	203	TRANSISTOR - NO STUFF Q2 Q3	2.000 EA
1	204	JACK - NO STUFF J102 J103 J401	3.000 EA
1	205	INTEGRATED CIRCUIT - NO STUFF U1	1.000 EA
1	206	RECEPTACLE NO STUFF J301	1.000 EA
1	9001	17A8023 SOLDER PASTE	1.000 EA
1	9002	17-8039 SOLDER	1.000 EA

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1	014	140A14 01 RESONATOR,COAXIAL,SMD,1600MHz	1.000 EA

Trans-Tech Corp #SR8800SMQ1600BY
SUBSTITUTIONS MUST BE APPROVED

1	015	145BJ000 06	1.000 EA
		RESISTOR,SMD 805,0,1/8W,5% NIC #NRC10Z0TRP10 OR ANY EQUIVALENT SUBSTITUTE	
1	016	145BJ305 06	2.000 EA
		RESISTOR,SMD 805,3M,1/8W,5% NIC #NRC10J305TRP10 OR ANY EQUIVALENT SUBSTITUTE	
1	017	145FJ000 05	3.000 EA
		R238 R285 RESISTOR,SMD 603,000,1/10W,5% Dale #CRCW0603000RT1 OR ANY EQUIVALENT SUBSTITUTE	
1	018	145FF1000 05	3.000 EA
		R198 R199 R226 RESISTOR,SMD 603,100,1/10W,1% Dale #CRCW06031000FRT1 OR ANY EQUIVALENT SUBSTITUTE	
1	019	145FF1001 05	6.000 EA
		R138 R208 R303 RESISTOR,SMD 603,1K,1/10W,1% Dale #CRCW06031001FRT1 OR ANY EQUIVALENT SUBSTITUTE	
1	020	145FF1002 05	17.000 EA
		R27 R35 R103 R108 R134 R151 RESISTOR,SMD 603,10K,1/10W,1% Dale #CRCW06031002FRT1 OR ANY EQUIVALENT SUBSTITUTE	
1	021	145FF1003 05	19.000 EA
		R1 R2 R15 R19 R107 R109 R110 R111 R112 R139 R141 R218 R219 R222 R239 R259 R503 RESISTOR,SMD 603,100K,1/10W,1% Dale #CRCW06031003FRT1 OR ANY EQUIVALENT SUBSTITUTE	
1	022	145FF1004 05	12.000 EA
		R14 R22 R23 R104 R113 R114 R204 R228 R230 R234 R235 R236 R237 R242 R244 R245 R255 R256 R277 RESISTOR,SMD 603,1M,1/10W,1% Dale #CRCW06031004FRT1 OR ANY EQUIVALENT SUBSTITUTE	
1	023	145FF1213 05	1.000 EA
		R10 R16 R17 R24 R42 R43 R44 R45 R203 R206 R265 R271 RESISTOR,SMD 603,121K,1/10W,1% Dale #CRCW06031213FRT1 OR	

		ANY EQUIVALENT SUBSTITUTE R274	
1	024	145FF1501 05 RESISTOR,SMD 603,1.5K,1/10W,1% Dale #CRCW06031501FRT1 OR ANY EQUIVALENT SUBSTITUTE	2.000 EA
		R202 R260	
1	025	145FF1502 05 RESISTOR,SMD 603,15K,1/10W,1% NIC #NRC06F1502TR OR ANY EQUIVALENT SUBSTITUTE	1.000 EA
		R243	
1	026	145FF2001 05 RESISTOR,SMD 603,2K,1/10W,1% Dale #CRCW06032001FRT1 OR ANY EQUIVALENT SUBSTITUTE	1.000 EA
		R137	
1	027	145FF2002 05 RESISTOR,SMD 603,20K,1/10W,1% Dale #CRCW06032002FRT1 OR ANY EQUIVALENT SUBSTITUTE	2.000 EA
		R116 R301	
1	028	145FF2003 05 RESISTOR,SMD 603,200K,1/10W,1% Dale #CRCW06032003FRT1 OR ANY EQUIVALENT SUBSTITUTE	3.000 EA
		R229 R276 R286	
1	029	145FF22R1 05 RESISTOR,SMD 603,22.1,1/10W,1% NIC #NRC06F22R1TR OR ANY EQUIVALENT SUBSTITUTE	3.000 EA
		R18 R117 R133	
1	030	145FF2210 05 RESISTOR,SMD 603,221,1/10W,1% NIC #NRC06F2210TR OR ANY EQUIVALENT SUBSTITUTE	1.000 EA
		R504	
1	031	145FF2490 05 RESISTOR,SMD 603,249,1/10W,1% NIC #NRC06F2490TR OR ANY EQUIVALENT SUBSTITUTE	2.000 EA
		R3 R221	
1	032	145FF2491 05 RESISTOR,SMD 603,2.49K,1/10W,1% Dale #CRCW06032491FRT1 OR ANY EQUIVALENT SUBSTITUTE	1.000 EA
		R140	
1	033	145FF2492 05 RESISTOR,SMD 603,24.9K,1/10W,1% Dale #CRCW06032492FRT1 OR	5.000 EA

		ANY EQUIVALENT SUBSTITUTE R249 R251 R275 R284 R287	
1	034	145FF3011 05 RESISTOR,SMD 603,3.01K,1/10W,1% Dale #CRCW06033011FRT1 OR ANY EQUIVALENT SUBSTITUTE R132 R136	2.000 EA
1	035	145FF3012 05 RESISTOR,SMD 603,30.1K,1/10W,1% Dale #CRCW06033012FRT1 OR ANY EQUIVALENT SUBSTITUTE R21 R223 R224 R225	4.000 EA
1	036	145FF3921 05 RESISTOR,SMD 603,3.92K,1/10W,1% NIC #NRC06F3921TR OR ANY EQUIVALENT SUBSTITUTE R501	1.000 EA
1	037	145FF4020 05 RESISTOR,SMD 603,402,1/10W,1% NIC #NRC06F4020TR OR ANY EQUIVALENT SUBSTITUTE R122 R257	2.000 EA
1	038	145FF4021 05 RESISTOR,SMD 603,4.02K,1/10W,1% NIC #NRC06F4021TR OR ANY EQUIVALENT SUBSTITUTE R11 R12 R20 R101 R143	5.000 EA
1	040	145FF4321 05 RESISTOR,SMD 603,4.32K,1/10W,1% NIC #NRC06F4321TR OR ANY EQUIVALENT SUBSTITUTE R502	1.000 EA
1	041	145FF49R9 05 RESISTOR,SMD 603,49.9,1/10W,1% NIC #NRC06F49R9TR OR ANY EQUIVALENT SUBSTITUTE R115 R127 R128 R129 R130	5.000 EA
1	042	145FF4990 05 RESISTOR,SMD 603,499,1/10W,1% Dale #CRCW06034990FRT1 OR ANY EQUIVALENT SUBSTITUTE R4 R5 R6 R106 R258 R280 R302	7.000 EA
1	043	145FF4991 05 RESISTOR,SMD 603,4.99K,1/10W,1% Dale #CRCW06034991FRT1 OR ANY EQUIVALENT SUBSTITUTE R124 R142	2.000 EA
1	044	145FF4992 05 RESISTOR,SMD 603,49.9K,1/10W,1% Dale #CRCW06034992FRT1 OR	8.000 EA

		ANY EQUIVALENT SUBSTITUTE R105 R119 R120 R123 R125 R205 R207 R299	
1	045	145FF4993 05 RESISTOR,SMD 603,499K,1/10W,1% Dale #CRCW06034993FRT1 OR ANY EQUIVALENT SUBSTITUTE	3.000 EA
		R247 R250 R266	
1	046	145FF7500 05 RESISTOR,SMD 603,750,1/10W,1% NIC #NRC06F7500TR OR ANY EQUIVALENT SUBSTITUTE	2.000 EA
		R121 R131	
1	047	145FF7502 05 RESISTOR,SMD 603,75K,1/10W,1% Dale #CRCW06037502FRT1 OR ANY EQUIVALENT SUBSTITUTE	1.000 EA
		R248	
1	048	146B02 06 POTENTIOMETER,TRIM,CHIP,SMD,1K Bourns #3364W-1-102E ANY EQUIVALENT SUBSTITUTE	1.000 EA
		R149	
1	049	150DB682KB 14 CAPACITOR,SMD 805,.0068uF,100V,10% NIC #NMC0805X7R682K100TRP OR ANY EQUIVALENT SUBSTITUTE	1.000 EA
		C206	
1	050	150GB102JB 07 CAPACITOR,SMD 603,.001uF,100V,5% NIC #NMC0603X7R102J100TRP OR ANY EQUIVALENT SUBSTITUTE	2.000 EA
		C230 C234	
1	051	150GA103KB 07 CAPACITOR,SMD 603,.01uF,50V,10% NIC #NMC0603X7R103K50TR OR ANY EQUIVALENT SUBSTITUTE	10.000 EA
		C103 C105 C116 C120 C121 C131 C135 C177 C178 C289	
1	052	150GC104KB 06 CAPACITOR,SMD 603,.1uF,16V,10% NIC #NMC0603X7R104K16TRP OR ANY EQUIVALENT SUBSTITUTE	22.000 EA
		C8 C122 C128 C136 C145 C147 C149 C161 C163 C164 C179 C205 C209 C222 C235 C244 C245 C248 C251 C261 C262 C287	
1	053	150GB120JA 07 CAPACITOR,SMD 603,12pF,100V,5% Murata #GRM39C0G120J100AD OR ANY EQUIVALENT SUBSTITUTE	1.000 EA
		C504	

1	054	150GB121JA	07	1.000 EA
		CAPACITOR,SMD 603,120pF,100V,5% Murata #GRM39C0G121J100AD OR ANY EQUIVALENT SUBSTITUTE C228		
1	055	150GB151JA	07	7.000 EA
		CAPACITOR,SMD 603,150pF,100V,5% Murata #GRM39C0G151J100AD OR ANY EQUIVALENT SUBSTITUTE C1 C2 C3 C249 C283 C285 C286		
1	056	150GA152JB	07	1.000 EA
		CAPACITOR,SMD 603,.0015uF,50V,5% Murata #GRM39X7R152J050AD OR ANY EQUIVALENT SUBSTITUTE C214		
1	057	150GB158BA	07	1.000 EA
		CAPACITOR,SMD 603,1.5pF,100V,.1pf NIC #NMC-L0603NPO1R5B100 ANY EQUIVALENT SUBSTITUTE C502		
1	058	150GB228BA	07	2.000 EA
		CAPACITOR,SMD 603,2.2pF,100V,.1pf NIC #NMC-L0603NPO2R2B100 ANY EQUIVALENT SUBSTITUTE C508 C512		
1	059	150GB270JA	07	26.000 EA
		CAPACITOR,SMD 603,27pF,100V,5% Murata #GRM39C0G270J100AD OR ANY EQUIVALENT SUBSTITUTE C5 C102 C104 C125 C126 C127 C132 C137 C146 C150 C152 C160 C162 C165 C167 C173 C174 C175 C201 C202 C207 C217 C218 C226 C301 C302		
1	060	150GB330JA	07	3.000 EA
		CAPACITOR,SMD 603,33pF,100V,5% Murata #GRM39C0G330J100AD OR ANY EQUIVALENT SUBSTITUTE C501 C503 C511		
1	061	150GB331JA	07	1.000 EA
		CAPACITOR,SMD 603,330pF,100V,5% NIC #NMC0603NPO331J100TRP OR ANY EQUIVALENT SUBSTITUTE C229		
1	062	150GA471JA	07	2.000 EA
		CAPACITOR,SMD 603,470pF,50V,5% Murata #GRM39C0G471J50AD OR ANY EQUIVALENT SUBSTITUTE C232 C290		
1	063	150GC473KB	06	2.000 EA
		CAPACITOR,SMD 603,.047uF,16V,10%		

		NIC #NMC0603X7R473K16TRP OR ANY EQUIVALENT SUBSTITUTE C7 C233	
1	064	150GB478BA 07 CAPACITOR,SMD 603,4.7pF,100V,.1pf NIC #NMC-L0603NPO4R7B100 ANY EQUIVALENT SUBSTITUTE C134 C144 C157 C231 C505 C506 C507	7.000 EA
1	065	150GB680JA 07 CAPACITOR,SMD 603,68pF,100V,5% Murata #GRM39C0G680J100AD OR ANY EQUIVALENT SUBSTITUTE C124 C236	2.000 EA
1	066	150GD681JA 06 CAPACITOR,SMD 603,680pF,25V,5% Murata #GRM39C0G681J25AD OR ANY EQUIVALENT SUBSTITUTE C4 C204	2.000 EA
1	067	151AD105KA 13 CAPACITOR,TANTALUM,SMD1206,1uF,16V,10% NIC #NTCT105K16TRA OR ANY EQUIVALENT SUBSTITUTE C208 C220 C255 C256 C257	5.000 EA
1	068	151AD106KB 13 CAPACITOR,TANTALUM,SMD1411,10uF,16V,10% NIC #NTCT106K16TRB OR ANY EQUIVALENT SUBSTITUTE C203 C219 C233	3.000 EA
1	069	151AC107MD 13 CAPACITOR,TANTALUM,SMD2916,100uF,10V,20% NIC #NTCT107M10TRD OR ANY EQUIVALENT SUBSTITUTE C225 C246	2.000 EA
1	070	151AB225MA 13 CAPACITOR,TANTALUM,SMD1206,2.2uF,6V,20% NIC #NTCT225M20TRA OR ANY EQUIVALENT SUBSTITUTE C6 C9 C215 C240	4.000 EA
1	071	151AE226KD 13 CAPACITOR,TANTALUM,SMD2916,22uF,20V,10% NIC #NTCT226K20TRD OR ANY EQUIVALENT SUBSTITUTE C130	1.000 EA
1	072	151AD474KA 13 CAPACITOR,TANTALUM,SMD1206,.47uF,16V,10% NIC #NTCT474K35TRA OR ANY EQUIVALENT SUBSTITUTE C129	1.000 EA
1	073	151AD475KB 13 CAPACITOR,TANTALUM,SMD1411,4.7uF,16V,10%	3.000 EA

		NIC #NTCT475K16TRB OR ANY EQUIVALENT SUBSTITUTE C101 C119 C176	
1	074	152F03 04 CAPACITOR,TRIM,SMD,5-40pF AVX #CTZ3S-40C-X-1-PF SUBSTITUTIONS MUST BE APPROVED C123	1.000 EA
1	075	152A04 03 CAPACITOR,TRIM,SMD,.65-2.5pF Murata #TZV02Z2R5A110T00 SUBSTITUTIONS MUST BE APPROVED C510	1.000 EA
1	078	162D10 05 INDUCTOR,SMD 805,22nH Coilcraft #0805CS-220XMBC SUBSTITUTIONS MUST BE APPROVED L115	1.000 EA
1	079	162R10 05 INDUCTOR,SMD 805,180nH Coilcraft #0805CS-181XKB SUBSTITUTIONS MUST BE APPROVED L205 L208	2.000 EA
1	080	162A25 04 INDUCTOR,SMD 603,100nH,10% Toko Inc. #LL1608-FR10K SEE SHURE DRAWING FOR SUBSTITUTES L102 L103 L104 L107 L110 L111 L114 L118 L121 L501 L503	11.000 EA
1	081	162N25 04 INDUCTOR,SMD 603,10nH,10% Toko Inc. #LL1608-FH10NK SEE SHURE DRAWING FOR SUBSTITUTES L106 L117 L119 L502	4.000 EA
1	082	162A28 04 FILTER,LC,LOW PASS,SMD,50 OHM Murata #LFTB25N19E0810B SUBSTITUTIONS MUST BE APPROVED U107 U108 U109	3.000 EA
1	083	170A07 03 HEADER,11 POSITION Framatome Connectors #91911-31311 SUBSTITUTIONS MUST BE APPROVED J101	1.000 EA
1	084	170A08 03 RECEPTACLE,11 POSITION Framatome Connectors #91931-31111 SUBSTITUTIONS MUST BE APPROVED J201	1.000 EA
1	085	170C15 01	1.000 EA

		STRIP,SOCKET,SIDE ENTRY,3 PIN	
		Samtec #MMS-103-02-L-SH-TR	
		SUBSTITUTIONS MUST BE APPROVED	
		J204	
1	086	183A01 10	2.000 EA
		TRANSISTOR,LOW NOISE,SOT-23,PNP,5087	
		On Semiconductor #MMBT5087L	
		SUBSTITUTIONS MUST BE APPROVED	
		Q2 Q101	
1	087	183A02 11	7.000 EA
		TRANSISTOR,LOW NOISE,SOT-23,NPN,5088	
		Motorola #MMBT5088LT1 OR	
		National Semiconductor #MMBT5088LT1	
		Q3 Q201 Q202 Q204 Q220 Q222 Q223	
1	088	183A30 02	4.000 EA
		TRANSISTOR,TMOS,SOT-23,FET,2N7002	
		On Semiconductor #2N7002L	
		SUBSTITUTIONS MUST BE APPROVED	
		Q1 Q4 Q211 Q215	
1	089	183A46 05	3.000 EA
		TRANSISTOR,MOSFET,POWER,SOT-23,N-CHANNEL	
		Fairchild Semiconductor #NDS355N	
		SUBSTITUTIONS MUST BE APPROVED	
		Q103 Q105 Q217	
1	090	183A48 06	3.000 EA
		TRANSISTOR,HIGH FREQUENCY,SOT-23,NPN,R24	
		NEC Corp #NE85630-T1	
		SUBSTITUTIONS MUST BE APPROVED	
		Q102 Q501 Q502	
1	091	183A49 02	1.000 EA
		TRANSISTOR,GENERAL PURPOSE,SOT23,AT41533	
		Hewlett Packard #AT-41533-TR1	
		SUBSTITUTIONS MUST BE APPROVED	
		Q104	
1	092	184A07 04	4.000 EA
		DIODE,DUAL,SWITCHING,SOT-23,75VDC	
		Motorola #MMBD2836LT1 OR	
		Allegro #TMPT2836LT	
		D101 D102 D103 D104	
1	093	184A08 03	2.000 EA
		DIODE,SIGNAL,SWITCHING,SOT-23,100VDC	
		Motorola #MMBD7000LT1 STYLE 11 OR	
		National Semiconductor #MMBD7000LT1	
		D105 D206	
1	094	184D32 04	1.000 EA
		LED,RIGHT ANGLE,RED	
		Industrial Devices (Chicago Miniature)	
		#6250F1	
		SUBSTITUTIONS MUST BE APPROVED	
		D203	

1	095	184E32	04	1.000 EA
		LED,RIGHT ANGLE,YELLOW		
		Industrial Devices (Chicago Miniature)		
		#6250F7		
		SUBSTITUTIONS MUST BE APPROVED		
		D202		
1	096	184F32	04	1.000 EA
		LED,RIGHT ANGLE,GREEN		
		Industrial Devices (Chicago Miniature)		
		#6250F5		
		SUBSTITUTIONS MUST BE APPROVED		
		D201		
1	097	184A36	02	1.000 EA
		DIODE,TUNING,RF,SOD-323,30VDC		
		Siemens #BB545		
		SUBSTITUTIONS MUST BE APPROVED		
		D501		
1	098	188A18	08	1.000 EA
		AMPLIFIER,OPERATIONAL,DUAL,SO-8,SC79161		
		Motorola #SC79161DR2		
		SUBSTITUTIONS MUST BE APPROVED		
		U2		
1	099	188A49	03	1.000 EA
		AMPLIFIER,OPERATIONAL,QUAD,SO-14,MC33179		
		On Semiconductor #MC33179D		
		SUBSTITUTIONS MUST BE APPROVED		
		U201		
1	100	188A428	04	1.000 EA
		REGULATOR,VOLTAGE,5V,SWITCH,ON/OFF		
		Toko Inc #TK11350BMC		
		SUBSTITUTIONS MUST BE APPROVED		
		U205		
1	101	188A118	02	1.000 EA
		AMPLIFIER,OPERATIONAL,DUAL,SO-8,TLC2272		
		Texas Instrument #TLC2272CDR		
		SUBSTITUTIONS MUST BE APPROVED		
		U106		
1	102	188A123	01	1.000 EA
		COMPARATOR,QUAD,LOW POWER,SO-14,LP339MX		
		National Semiconductor #LP339MX		
		SUBSTITUTIONS MUST BE APPROVED		
		U208		
1	103	188A126	02	1.000 EA
		COMPANDER,LOW VOLTAGE,SSOP-20,NE575DK		
		Phillips Semiconductor #SA575DK		
		SUBSTITUTIONS MUST BE APPROVED		
		U203		
1	104	188A131	02	1.000 EA
		MEMORY,EEPROM,SO-8,CAT24C04J		
		Catalyst #CAT24WC04J-TE13		

SUBSTITUTIONS MUST BE APPROVED			
1	105	U102 188C210 03	1.000 EA
		DETECTOR,VOLTAGE,SOT23,TC54V-N4302ECB Microchip Technology #TC54V-N4302ECB SUBSTITUTIONS MUST BE APPROVED	
1	106	U103 188D238G 07	1.000 EA
		MICROPROCESSOR,8-BIT,UC1,MC68HC705J1ACDW Motorola #MC68HC705J1ACDW SUBSTITUTIONS MUST BE APPROVED	
1	107	U101 188A265 02	1.000 EA
		SYNTHESIZER,FREQUENCY,PLL,SO-16,MB15A02 Fujitsu Ltd #MB15A02PFER SUBSTITUTIONS MUST BE APPROVED	
1	108	U104 183A53 01	1.000 EA
		TRANSISTOR,FET,DMOS,SOT-23,NDS356AP Fairchild Semiconductor #NDS356AP SUBSTITUTIONS MUST BE APPROVED	
1	109	Q218 36A8080 01	2.000 EA
		SHOCKMOUNT,ELASTOMER,SILICON CUSTOM - SEE SHURE DRAWING	
1	110	C509 150GB108BA 07	1.000 EA
		CAPACITOR,SMD 603,1pF,100V,.1pf NIC #NMC-L0603NPO1R0B100 See Shure AVL for alternate vendors	
1	111	C509 140C15 02	1.000 EA
		RESONATOR,CERAMIC,SMD,4MHz Murata #CSTCC4.00MG-TC SUBSTITUTIONS MUST BE APPROVED	
1	112	Y103 155A11 04	1.000 EA
		SWITCH,DIP,ROTARY,16 POSITION Augat Inc #MRD91535F SUBSTITUTIONS MUST BE APPROVED	
1	113	S102 155B11 04	1.000 EA
		SWITCH,DIP,ROTARY,10 POSITION Augat Inc #MRD91534F SUBSTITUTIONS MUST BE APPROVED	
1	114	S101 150GB101JA 07	1.000 EA
		CAPACITOR,SMD 603,100pF,100V,5% Murata #GRM39C0G101J100AD OR ANY EQUIVALENT SUBSTITUTE	
		C12	

1	115	188A136	02	1.000 EA
		COMPARATOR,VOLTAGE,DUAL,SO-8,TLC393CDR		
		Texas Instrument #TLC393CDR		
		SUBSTITUTIONS MUST BE APPROVED		
		U1		
1	116	145FF4022	05	1.000 EA
		RESISTOR,SMD 603,40.2K,1/10W,1%		
		NIC #NRC06F4022TR OR		
		ANY EQUIVALENT SUBSTITUTE		
		R13		
1	117	28A8197	01	1.000 EA
		LABEL - BAR CODE		
1	118	145FF1000	05	2.000 EA
		RESISTOR,SMD 603,100,1/10W,1%		
		Dale #CRCW06031000F		
		SEE SHURE AVL FOR ALTERNATE VENDORS		
		R208 R303		
1	200	RESISTOR - NO STUFF		29.000 EA
		R9 R25 R26 R28 R29 R30 R31 R32 R33 R34		
		R36 R37 R38 R39 R40 R41 R144 R145 R150		
		R152 R153 R154 R155 R156 R157 R298 R401		
		R402 R403		
1	201	CAPACITOR - NO STUFF		8.000 EA
		C117 C118 C148 C173 C216 C254 C401 C402		
1	202	CRYSTAL - NO STUFF		1.000 EA
		Y102		
1	204	JACK - NO STUFF		3.000 EA
		J102 J103 J401		
1	205	RECEPTACLE NO STUFF		1.000 EA
		J301		
1	9001	17A8023 SOLDER PASTE		1.000 EA
1	9002	17-8039 SOLDER		1.000 EA

04/10/2003

95B8805F
MODIFIED MX392 PCB ASSEMBLY

Level	Item	Component no. Description	Quantity
1	001	34A8500E 05 PRINTED CIRCUIT BOARD ARRAY CUSTOM - SEE SHURE DRAWING	1.000 EA
1	002	95A8709 03 HEADER,RIGHT ANGLE,2 PIN Samtec #ASP-15903-01-M NO SUBSTITUTIONS PERMITTED J4	1.000 EA
1	003	95B2048 07 STRIP,TERMINAL,MINIATURE,3 PIN RIA Electronic Co #31059103 NO SUBSTITUTIONS PERMITTED J2 J3	2.000 EA
1	004	145BJ000 06 RESISTOR,SMD 805,0,1/8W,5% NIC #NRC10Z0 See Shure AVL for alternate vendors R40 R45	2.000 EA
1	006	151BG224KB 10 CAPACITOR,ELECTROLYTIC,SMD,.22uF,50V,10% NIC #NACE224K50V4X5.5 See Shure AVL for alternate vendors C14	1.000 EA
1	007	151BG476MF 10 CAPACITOR,ELECTROLYTIC,SMD,47uF,50V,20% NIC #NACE470M50V6.3X8 See Shure AVL for alternate vendors C9 C11	2.000 EA
1	008	155B06 04 SWITCH,DIP,4 POLE Alcoswitch #GDH04S SUBSTITUTIONS MUST BE APPROVED SW1	1.000 EA
1	009	184A02 11 DIODE,SWITCHING,HIGH SPEED,SOT-23,70VDC On Semiconductor #MMBD914L SUBSTITUTIONS MUST BE APPROVED Q5	1.000 EA
1	010	183A02 11 TRANSISTOR,LOW NOISE,SOT-23,NPN,5088 On Semiconductor #MMBT5088L See Shure AVL for alternate vendors	1.000 EA

		Q13		
1	012	183A30	02	1.000 EA
		TRANSISTOR,TMOS,SOT-23,FET,2N7002		
		On Semiconductor #2N7002L		
		SUBSTITUTIONS MUST BE APPROVED		
		Q12		
1	013	183A38	02	2.000 EA
		TRANSISTOR,LOW NOISE,SOT-23,NPN,5089		
		On Semiconductor #MMBT5089L		
		See Shure AVL for alternate vendors		
		Q10 Q11		
1	015	184A08	03	2.000 EA
		DIODE,SIGNAL,SWITCHING,SOT-23,100VDC		
		On Semiconductor #MMBD7000L		
		See Shure AVL for alternate vendors		
		D2 D4		
1	016	184A12	04	1.000 EA
		DIODE,ZENER,SOT-23,5.6V		
		On Semiconductor #MMBZ5232BL		
		SUBSTITUTIONS MUST BE APPROVED		
		D3		
1	017	184A35	02	1.000 EA
		DIODE,ZENER,SOT-23,24VDC		
		On Semiconductor #MMBZ5252BL		
		See Shure AVL for alternate vendors		
		D5		
1	018	188A05	09	1.000 EA
		SWITCH,ANALOG,CONTROLLED,SO-16,MC14053		
		On Semiconductor #MC14053BD		
		SUBSTITUTIONS MUST BE APPROVED		
		U3		
1	019	188A125	05	1.000 EA
		GATE,NAND,POSITIVE,QUAD,SO-14,SN74HC132		
		Texas Instruments #SN74HC132D		
		See Shure AVL for alternate vendors		
		U1		
1	020	188A45	02	1.000 EA
		FLIP-FLOP,DUAL D,SET/RESET,SO-14,74HC74		
		On Semiconductor #MC74HC74AD		
		SUBSTITUTIONS MUST BE APPROVED		
		U2		
1	021	145BF1001	06	4.000 EA
		RESISTOR,SMD 805,1K,1/8W,1%		
		NIC #NRC10F1001		
		See Shure AVL for alternate vendors		
		R9 R38 R42 R47		
1	022	145BF4021	06	1.000 EA
		RESISTOR,SMD 805,4.02K,1/8W,1%		
		NIC #NRC10F4021		
		See Shure AVL for alternate vendors		

		R28		
1	023	145BF1003	06	4.000 EA
		RESISTOR,SMD 805,100K,1/8W,1%		
		NIC #NRC10F1003		
		See Shure AVL for alternate vendors		
		R22 R25 R27 R36		
1	024	145BF1004	06	1.000 EA
		RESISTOR,SMD 805,1M,1/8W,1%		
		NIC #NRC10F1004		
		See Shure AVL for alternate vendors		
		R23		
1	025	145BF10R0	06	1.000 EA
		RESISTOR,SMD 805,10,1/8W,1%		
		NIC #NRC10F10R0		
		See Shure AVL for alternate vendors		
		R39		
1	028	145BF2003	06	1.000 EA
		RESISTOR,SMD 805,200K,1/8W,1%		
		NIC #NRC10F2003		
		See Shure AVL for alternate vendors		
		R24		
1	030	145BF3012	06	1.000 EA
		RESISTOR,SMD 805,30.1K,1/8W,1%		
		NIC #NRC10F3012		
		See Shure AVL for alternate vendors		
		R33		
1	031	145BF3013	06	7.000 EA
		RESISTOR,SMD 805,301K,1/8W,1%		
		NIC #NRC10F3013		
		See Shure AVL for alternate vendors		
		R26 R29 R30 R31 R32 R41 R44		
1	035	145BF7501	06	1.000 EA
		RESISTOR,SMD 805,7.5K,1/8W,1%		
		NIC #NRC10F7501		
		See Shure AVL for alternate vendors		
		R37		
1	036	145BJ106	06	1.000 EA
		RESISTOR,SMD 805,10M,1/8W,5%		
		NIC #NRC10J106		
		See Shure AVL for alternate vendors		
		R34		
1	037	150DA104KB	14	6.000 EA
		CAPACITOR,SMD 805,.1uF,50V,10%		
		NIC #NMC0805X7R104K50		
		See Shure AVL for alternate vendors		
		C15 C16 C19 C20 C21 C22		
1	038	150DB102JA	14	3.000 EA
		CAPACITOR,SMD 805,.001uF,100V,5%		
		Murata #GRM21B5C2A102JD01		
		See Shure AVL for alternate vendors		

1	040	C10 C17 C18 162A03 09	1.000 EA
		BEAD,FERRITE,SMD1206,65 OHM Murata #BLM31AF700SN1 SUBSTITUTIONS MUST BE APPROVED L2	
1	041	28A8197 01	1.000 EA
		LABEL - BAR CODE CUSTOM - SEE SHURE DRAWING	
1	042	145BJ000 06	9.000 EA
		RESISTOR,SMD 805,0,1/8W,5% NIC #NRC10Z0 SEE SHURE AVL FOR ALTERNATE VENDORS R1 R2 R4 R10 R11 R12 R43 R48 R49	
1	050	17A8023 SOLDER PASTE	1.000 EA
1	060	17A8024 ADHESIVE .1111	1.000 EA