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Bill of Material

Parent part: 8000-0011-02 PCA,TX630 SYNTHESIZER BD,
Type : A REV C

Level	Component	Description	Qty Required	UM	T	Scrap	Seq	RtNum	Reference	Lin
..1	6804-130R-00	RES,130,1/8W,5%,MF,C1206	2.00000000	EA	R	0.00	0	0	R81,R82	1
..1	68A1-115R-00	RES,115,1/16W,1%,TF,0402,SMD	2.00000000	EA	R	0.00	0	0	R25,R28	2
	Mfgrs:	VISHAY DALE CRCW04021150FRT7								
..1	68A1-51R0-01	RES,51.0,1/16W,5%,TF,C0402,SMD	1.00000000	EA	R	0.00	0	0	R26	3
..1	6225-0052-00	CONN,8PIN,STACKER,2R,.05IN, FW-04-02-L-D-300-150 HT .300	1.00000000	EA	R	0.00	0	0	J1	4
	Mfgrs:	SAMTEC FW-04-02-L-D-300-150								
..1	8000-0011-00	PCA,TX6XX SYNTHESIZER BD, REV C	1.00000000	EA	A	0.00	0	0	BASIC SYNTH ASSEMBLY	5
..2	6000-0011-00	PCB,SYNTHESIZER BOARD,TX630 REV C	1.00000000	EA	R	0.00	0	0	PCB	1
	Vends:	AVALONRF Avalon RF								
..2	7200-0069-00	IC,LA7054Z,VIDEO/AUDIO PROCES- SOR/MODULATOR	2.00000000	EA	R	0.00	0	0	U1,U3	2
	Mfgrs:	SANYO LA7054Z								
..2	7200-0070-00	IC,LC7152M,DUAL-PLL FREQ SYNTHZR,SMD,MFP24S	1.00000000	EA	R	0.00	0	0	U2	3
	Mfgrs:	SANYO LC7152M								
..2	7200-0007-00	IC,EL2244CS,D.VID.OPAMP,SOP	2.00000000	EA	R	0.00	0	0	U4,U8	4
	Specs:	SO8-3.9MM(D)								
	Vends:	AMEII America II EL2244CS-T7								
		FUTELE Future Electronics MC33072D/MC33272AD								
		MOUSER Mouser Electronics, Inc. 511-MC4558CD/512-MC4558CD								
		UNIQUE UNIQUE EL2244CS								
	Mfgrs:	ELANTEC EL2244CS								
		FAIRCHILD SEMICONDUCTOR MC4558CD								
		ST MICROELECTRONICS MC33072D								
		STMICROELECTRONICS MC4558CD								
..2	7900-0054-00	VCO,TVF-2302,2.1GHZ-2.5GHZ,SMD	1.00000000	EA	R	0.00	0	0	U5	5
	Mfgrs:	TETRA ELECTRONICS IND,LTD TVF-2302								
..2	7200-0077-00	IC,RF2044,LOW PWR RF AMP	1.00000000	EA	R	0.00	0	0	U6	6
	Mfgrs:	RF MICRO DEVICES RF2044								
..2	7200-0071-00	IC,LMX2326TM,2.8GHZ FREQ SYNTHZR,SMD,TSSOP-16	1.00000000	EA	R	0.00	0	0	U7	7
	Mfgrs:	NATIONAL SEMICONDUCTOR LMX2326TM								
..2	7200-0065-00	IC,LM2937IMP-5,LDO,5V,500MA, SMD,SOT-223-4	1.00000000	EA	R	0.00	0	0	U10	8
	Vends:	DIGIKEY Digi-Key LM2937IMP-5.0TR-ND								
	Mfgrs:	NATIONAL SEMICONDUCTOR LM2937IMP-5								
..2	7200-0066-01	IC,S-814A33AUC,LDO,3.3V,150MA, SMD,SOT-89-5,REGULATOR	1.00000000	EA	R	0.00	0	0	U11	9
	Vends:	MOUSER Mouser Electronics, Inc. 628-814A33AUC								
	Mfgrs:	SEIKO INSTRUMENTS S-814A33AUC								
..2	7200-0080-00	IC,TPS71501,ADJ V-REG,SOT-323	1.00000000	EA	R	0.00	0	0	U12	10
	Mfgrs:	TEXAS INSTRUMENTS TPS71501DCKR								
..2	7200-0036-00	IC,LM4040EIM3-2.5,V-REF,2% SOT-23	1.00000000	EA	R	0.00	0	0	CR5	11
	Vends:	DIGIKEY Digi-Key LM4040EIM3-2.5CT-ND								
	Mfgrs:	NATIONAL SEMICONDUCTOR LM4040EIM3-2.5								
..2	7500-0026-00	IC,C8051F311,MCU ISP FLASH, 25 PORT,24.5MHZ,MLP-28	1.00000000	EA	R	0.00	0	0	U9	12
	Vends:	DIGIKEY Digi-Key 336-1057-1-ND								

Level	Component	Description	Qty Required	UM	T	Scrap	Seq	RtNum	Reference	Lin	
..2	Mfgs: 7100-0001-00	CYGNAL PNP,MMBT2907A,-60V,SOT-23	C8051F311	2.00000000	EA	R	0.00	0	0	Q2,Q3	13
..2	Mfgs: 7100-0001-01	DIODES INC NPN,MMBT3904,40V,SOT-23	MMBT2907A	1.00000000	EA	R	0.00	0	0	Q1	14
..2	Mfgs: 7100-0002-00	DIODES INC NPN,FMMT2222ATC,40V,SOT23	MMBT3904-7	1.00000000	EA	R	0.00	0	0	Q4	15
	Specs:	Zetex FMMT2222A is NOT recommended for new designs.									
	Vends:	CAP ASSOC	Capacitor Associates	MMBT2222A							
		MOUSER	Mouser Electronics, Inc.	512-MMBT2222A							
..2	Mfgs: 7000-0106-00	FAIRCHILD DIODE,BAV70,DUAL,COM C,SOT23	MMBT2222A	2.00000000	EA	R	0.00	0	0	CR3,CR4	16
	Vends:	DIGIKEY	Digi-Key	BAV70ZXT-ND							
..2	Mfgs: 7000-0006-00	ZETEX DIODE,BAS16ZX,SWITCHING,75V,100MA,2NS,SOT-23	BAV70TA	1.00000000	EA	R	0.00	0	0	CR6	17
	Vends:	DIGIKEY	Digi-Key	BAS16ZXT-ND							
		MOUSER	Mouser Electronics, Inc.	512-MMBD4148							
	Mfgs:	DIODES INC	MMBD4148								
		FAIRCHILD	MMBD4148								
		ZETEX	BAS16 (NOT RECOMMENDED)								
..2	Mfgs: 7000-0111-00	VARACTOR,ZV953V2TA,SOD-523	ZV953V2TA	2.00000000	EA	R	0.00	0	0	CR1,CR2	18
	Vends:	DIGIKEY	Digi-Key	ZV953V2TACT-ND							
..2	Mfgs: 6902-0004-00	ZETEX FILTER,5MHZ L.P.,LC,SMD 630LMN-1031	ZV953V2TA	1.00000000	EA	R	0.00	0	0	FL3	19
..2	Mfgs: 6902-0005-00	TOKO FILTER,7MHZ L.P.,LC,SMD 629LKN-1419	630LMN-1031	1.00000000	EA	R	0.00	0	0	FL2	20
..2	Mfgs: 6902-0006-00	TOKO FILTER,2.4GHz LP,TF,LP0805 LP0805A2442AW	629LKN-1419	1.00000000	EA	R	0.00	0	0	FL1	21
..2	Mfgs: 6805-5K00-00	AVX CORP POT,5K,1T,TADJ,3mm	LP0805A2442AW	2.00000000	EA	R	0.00	0	0	R1,R16	22
	Vends:	MOUSER	Mouser Electronics, Inc.	72-TS3YJ-5K							
..2	Mfgs: 6805-1K00-00	VISHAY POT,1K,1T,TADJ,3mm	TS3YJ-502-RF7	1.00000000	EA	R	0.00	0	0	R14	23
	Vends:	MOUSER	Mouser Electronics, Inc.	72-TS3YJ-1K							
..2	Mfgs: 6702-33P0-00	VISHAY/DALE CAP,33PF,50V,5%,COH,C0402	TS3YJ-102-RF7	1.00000000	EA	R	0.00	0	0	C45	24
..2	Mfgs: 6706-10U0-00	TAIYO YUDEN CAP,10UF,10V,Y5V,C1206 +80/-20%	UMK105CH330GJW	10.00000000	EA	R	0.00	0	0	SEE REMARKS	25
	Remks:	C1,C2,C11,C12,C17,C18,C31,C38,C42,C52									
	Vends:	DIGIKEY	Digi-Key	PCC1894CT-ND							
	Mfgs:	PANASONIC	ECJ-3YF1A106Z								
..2	Mfgs: 6702-1U00-00	TAIYO YUDEN CAP,1UF,6.3V,+80/-20%,Y5V,C0402	GMK325F106ZH	2.00000000	EA	R	0.00	0	0	C3,C41	26
	Vends:	JACO	JMK105F105ZV-F								
	Mfgs:	TAIYO YUDEN	RM JMK105 F105ZV-F								

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Parent part: 8000-0011-02 PCA,TX630 SYNTHESIZER BD,
Type : A REV C

Level	Component	Description	Qty Required	UM	T	Scrap	Seq	RtNum	Reference	Lin
..2	6705-1U00-00	CAP,1UF,50V,+80/-20%,Y5R,C0805	2.00000000	EA	R	0.00	0	0	C7,C67	26
	Mfgrs:	TAIYO YUDEN	UMK212F105ZG							
..2	6702-22P0-00	CAP,22PF,50V,5%,COH,C0402	7.00000000	EA	R	0.00	0	0	SEE REMARKS	27
	Remks:	C8,C9,C14,C19,C20,C21,C33								
	Mfgrs:	TAIYO YUDEN	RM UMK105 CH220JW-F							
..2	6702-U010-00	CAP,.01UF,50V,10%,X5R,C0402	7.00000000	EA	R	0.00	0	0	SEE REMARKS	28
	Remks:	C16,C32,C35,C44,C47,C60,C68								
	Mfgrs:	TAIYO YUDEN	RM UMK105 BJ103KV-F							
..2	6702-U100-00	CAP,.1UF,16V,+80/-20%,Y5V,C0402	11.00000000	EA	R	0.00	0	0	SEE REMARKS	29
	Remks:	C15,C26,C27,C28,C30,C34,C39,C46,C63,C64,C66								
	Mfgrs:	TAIYO YUDEN	RM EMK105 F104ZV-F							
..2	6702-100P-00	CAP,100PF,50V,5%,COH,C0402	11.00000000	EA	R	0.00	0	0	SEE REMARKS	30
	Remks:	C5,C6,C22,C29,C36,C37,C54,C55,C57,C58,C59								
	Mfgrs:	TAIYO YUDEN	RM UMK105 CH101JW-F							
..2	6702-1N00-00	CAP,1000PF,50V,10%,X7R,C0402	5.00000000	EA	R	0.00	0	0	SEE REMARKS	31
	Remks:	C4,C40,C43,C48,C56								
	Mfgrs:	KEMET	C0402C102K5RAC							
		TAIYO YUDEN	UMK105BJ102KV							
..2	6702-68P0-00	CAP,68PF,50V,5%,COH,C0402	1.00000000	EA	R	0.00	0	0	C51	32
	Mfgrs:	TAIYO YUDEN	RM UMK105 CH680JW-F							
..2	6702-2N20-00	CAP,2200PF,50V,10%,X7R,C0402	1.00000000	EA	R	0.00	0	0	C50	33
	Mfgrs:	TAIYO YUDEN	RM UMK105 BJ222KV-F							
..2	6702-27P0-00	CAP,27PF,50V,5%,COH,C0402	1.00000000	EA	R	0.00	0	0	C53	34
	Mfgrs:	TAIYO YUDEN	RM UMK105 CH270JW-F							
..2	6702-820P-00	CAP,820PF,25V,10%,X7R,C0402	1.00000000	EA	R	0.00	0	0	C49	35
	Mfgrs:	PANASONIC	ECJ-0EB1E821K							
..2	6702-12P0-00	CAP,12PF,50V,5%,X5R,C0402	1.00000000	EA	R	0.00	0	0	?	36
	Mfgrs:	TAIYO YUDEN	UMK105CH120JW							
..2	67A4-47U0-01	CAP,47UF,10V,TANT-D,SMD	1.00000000	EA	R	0.00	0	0	C13	37
	Mfgrs:	AVX	TAJD476K016TR							
		VISHAY SPRAGUE	293D476X9016D2T							
..2	6702-P500-00	CAP,0.5PF,16V,+/-0.1PF,COH,C0402	1.00000000	EA	R	0.00	0	0	C24	38
	Mfgrs:	TAIYO YUDEN	EVK105CH0R5BW							
..2	6706-1U00-00	CAP,1UF,25V,10%,X7R,C1206	1.00000000	EA	R	0.00	0	0	C61	38
..2	68A1-22K1-00	RES,22.1K,1/16W,1%,TF,C0402	4.00000000	EA	R	0.00	0	0	R5,R8,R42,R46	39
	Vends:	MOUSER Mouser Electronics, Inc.	71-CRCW0402-22.1K							
	Mfgrs:	VISHAY/DALE	CRCW040222K1FKTD							
..2	68A1-75R0-00	RES,75,1/16W,1%,TF,C0402	4.00000000	EA	R	0.00	0	0	R7,R58,R59,R63	40
	Mfgrs:	NIC	NRC04F7500TR							
..2	68A1-10K0-00	RES,10.0K,1/16W,1%,TF,C0402	23.00000000	EA	R	0.00	0	0	SEE REMARKS	41
	Remks:	R3,R9,R18,R19,R32,R44,R49,R54,R56,R73,R74,R75,R76,R80,R84,R86,R88,R89,R93,R94,R95,R98,R100								
	Mfgrs:	NIC	NRC04F1002TR							
..2	68A1-3K32-00	RES,3.32K,1/16W,1%,TF,C0402	2.00000000	EA	R	0.00	0	0	R2,R43	42
	Vends:	MOUSER Mouser Electronics, Inc.	71-CRCW0402-3.32K							
	Mfgrs:	VISHAY/DALE	CRCW04023K32FKTD							
..2	68A1-35R7-00	RES,35.7,1/16W,1%,TF,C0402	1.00000000	EA	R	0.00	0	0	R21	43
	Mfgrs:	NIC	NRC04F35R7TR							
..2	68A1-56K2-00	RES,56.2K,1/16W,1%,TF,C0402	2.00000000	EA	R	0.00	0	0	R41,R52	44
	Vends:	MOUSER Mouser Electronics, Inc.	71-CRCW0402-56.2K							

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Parent part: 8000-0011-02 PCA,TX630 SYNTHESIZER BD,
Type : A REV C

Level	Component	Description	Qty Required	UM	T	Scrap	Seq	RtNum	Reference	Lin
	Mfgrs: NIC	NCR04F5622TR								
		VISHAY/DALE	CRCW040256K2FKTD							
...2	68A1-1K00-00	RES,1.00K,1/16W,1%,TF,C0402	5.00000000	EA	R	0.00	0	0	SEE REMARKS	45
	Remks:	R15,R47,R53,R66,R68								
	Mfgrs: NIC	NRC04F1001TR								
...2	68A1-510R-01	RES,510,1/16W,5%,TF,C0402,SMD	1.00000000	EA	R	0.00	0	0	R13	46
	Mfgrs: NIC	NRC04J511TR								
...2	68A1-619R-00	RES,619,1/16W,1%,TF,C0402	3.00000000	EA	R	0.00	0	0	R23,R34,R35	47
	Vends: MOUSER	Mouser Electronics, Inc. 71-CRCW0402-619								
	Mfgrs: NIC	NRC04F6190TR								
		VISHAY/DALE	CRCW0402619RFKTD							
...2	68A1-2K43-00	RES,2.43K,1/16W,1%,TF,C0402	4.00000000	EA	R	0.00	0	0	R33,R48,R60,R91	48
	Vends: MOUSER	Mouser Electronics, Inc. 71-CRCW0402-2.43K								
	Mfgrs: NIC	NRC04F2431TR								
		VISHAY/DALE	CRCW04022K43FKTD							
...2	68A1-18R2-00	RES,18.2,1/16W,1%,TF,C0402	3.00000000	EA	R	0.00	0	0	R22,R31,R72	49
	Mfgrs: NIC	NRC04F18R2TR								
...2	68A1-332R-00	RES,332,1/16W,1%,TF,C0402	1.00000000	EA	R	0.00	0	0	R24	50
	Vends: MOUSER	Mouser Electronics, Inc. 71-CRCW0402-332								
	Mfgrs: VISHAY/DALE	CRCW0402332RFKTD								
...2	68A1-20R0-00	RES,20.0,1/16W,1%,TF,C0402	1.00000000	EA	R	0.00	0	0	R57	51
	Vends: MOUSER	Mouser Electronics, Inc. 71-CRCW0402-20								
	Mfgrs: NIC	NRC04F20R0TR								
		VISHAY/DALE	CRCW040220R0FKTD							
...2	68A1-33K2-00	RES,33.2K,1/16W,1%,TF,C0402	4.00000000	EA	R	0.00	0	0	R4,R45,R77,R87	52
	Vends: MOUSER	Mouser Electronics, Inc. 71-CRCW0402-33.2K								
	Mfgrs: NIC	NRC04F3322TR								
		VISHAY/DALE	CRCW040233K2FKTD							
...2	68A1-681R-00	RES,681,1/16W,1%,TF,C0402	2.00000000	EA	R	0.00	0	0	R51,R65	53
	Vends: MOUSER	Mouser Electronics, Inc. 71-CRCW0402-681								
	Mfgrs: VISHAY/DALE	CRCW0402681RFKTD								
...2	68A1-3K01-00	RES,3.01K,1/16W,1%,TF,C0402	2.00000000	EA	R	0.00	0	0	R70,R71	54
	Vends: MOUSER	Mouser Electronics, Inc. 71-CRCW0402-3.01K								
	Mfgrs: NIC	NRC04F3011TR								
		VISHAY/DALE	CRCW04023K01FKTD							
...2	68A1-1K50-00	RES,1.50K,1/16W,1%,TF,C0402	1.00000000	EA	R	0.00	0	0	R69	55
	Vends: MOUSER	Mouser Electronics, Inc. 71-CRCW0402-1.5K								
	Mfgrs: NIC	NRC04F1501TR								
		VISHAY/DALE	CRCW04021K50FKTD							
...2	68A1-27K4-00	RES,27.4K,1/16W,1%,TF,C0402	1.00000000	EA	R	0.00	0	0	R90	56
	Vends: MOUSER	Mouser Electronics, Inc. 71-CRCW0402-27.4K								
...2	68A1-36K5-00	RES,36.5K,1/16W,1%,TF,C0402	2.00000000	EA	R	0.00	0	0	R62,R83	57
	Vends: MOUSER	Mouser Electronics, Inc. 71-CRCW0402-36.5K								
...2	68A1-10R0-00	RES,10.0,1/16W,1%,TF,C0402	1.00000000	EA	R	0.00	0	0	R50	58
	Vends: MOUSER	Mouser Electronics, Inc. 71-CRCW0402-10								
	Mfgrs: NIC	NRC04F10R0TR								
		VISHAY/DALE	CRCW040210R0FKTD							
...2	68A1-2K00-00	RES,2.00K,1/16W,1%,TF,C0402	1.00000000	EA	R	0.00	0	0	R67	60
	Mfgrs: NIC	NRC04F2001TR								
...2	68A1-20K0-00	RES,20.0K,1/16W,1%,TF,C0402	1.00000000	EA	R	0.00	0	0	R11	61
	Vends: MOUSER	Mouser Electronics, Inc. 71-CRCW0402-20K								
	Mfgrs: VISHAY/DALE	CRCW040220K0FKTD								

Bill of Material

Parent part: 8000-0011-02 PCA,TX630 SYNTHESIZER BD,
Type : A REV C

Level	Component	Description	Qty Required	UM	T	Scrap	Seq	RtNum	Reference	Lin
..2	68A1-6K19-00	RES,6.19K,1/16W,1%,TF,C0402	1.00000000	EA	R	0.00	0	0	R79	62
	Vends:	MOUSER Mouser Electronics, Inc.	71-CRCW0402-6.19K							
..2	68A1-150R-00	RES,150,1/16W,1%,TF,C0402	3.00000000	EA	R	0.00	0	0	R17,R20,R27	63
	Mfgrs:	NIC NRC04F1500TR								
..2	68A1-R000-00	RES,0,1/16W,1%,TF,C0402	2.00000000	EA	R	0.00	0	0	R6,R10	64
	Mfgrs:	NIC NRC04FZ0TR								
..2	68A1-9K09-00	RES,9.09K,1/16W,1%,TF,C0402	4.00000000	EA	R	0.00	0	0	R37,R38,R39,R40	65
	Vends:	MOUSER Mouser Electronics, Inc.	71-CRCW0402-9.09K							
	Mfgrs:	NIC NRC04F9091TR								
		VISHAY/DALE CRCW04029K09FKTD								
..2	68A1-274R-00	RES,274,1/16W,1%,TF,C0402	2.00000000	EA	R	0.00	0	0	R61,R64	66
	Vends:	MOUSER Mouser Electronics, Inc.	71-CRCW0402-274							
	Mfgrs:	VISHAY/DALE CRCW0402274RFKTD								
..2	68A1-100K-00	RES,100K,1/16W,1%,TF,C0402	4.00000000	EA	R	0.00	0	0	R36,R55,R78,R92	67
	Vends:	MOUSER Mouser Electronics, Inc.	71-CRCW0402-100K							
	Mfgrs:	VISHAY/DALE CRCW0402100KFKTD								
..2	68A1-2K21-00	RES,2.21K,1/16W,1%,TF,C0402	1.00000000	EA	R	0.00	0	0	R12	68
	Mfgrs:	NIC NRC04F2211TR								
..2	6503-47N0-00	IND,47NH,200mA,5%,C0805	1.00000000	EA	R	0.00	0	0	L3	72
	Mfgrs:	TAIYO YUDEN HK212547NJ-T								
..2	6502-4N70-00	IND,4.7NH,300MA,+/-0.3nH,C0603	1.00000000	EA	R	0.00	0	0	L4	73
	Mfgrs:	TAIYO YUDEN HK16084N7S								
..2	6503-10U0-00	IND,10UH,15MA,10%,C0805	2.00000000	EA	R	0.00	0	0	L1,L2	74
	Mfgrs:	TAIYO YUDEN LK2125100K								
..2	6503-18U0-01	IND,18UH,65MA,5%,1008	1.00000000	EA	R	0.00	0	0	L5	75
		PANASONIC P/N:ELJ-FC180JF								
	Vends:	DIGIKEY Digi-Key PCD1243TR-ND								
	Mfgrs:	PANASONIC ELJ-FC180JF								
..2	6504-0001-00	FERRITE,100 OHMS @ 100MHZ,3A, C1206, HI1206N101R-00	1.00000000	EA	R	0.00	0	0	FB1	76
	Vends:	DIGIKEY Digi-Key 240-1008-2-ND								
	Mfgrs:	STEWART HI1206N101R-00								
..2	6901-0009-01	CRYSTAL,10.0MHz,SMD,PARALLEL, 20pF,FE100-20	1.00000000	EA	R	0.00	0	0	Y1	77
	Vends:	JACO JACO FE100-20								
	Mfgrs:	FOX ELECTRONICS FE100-20								
..2	6224-0023-01	CONN,4PIN,2ROW SCKT,.05",LOW PROFILE,SMT,CLP-102-02-G-D-TR	1.00000000	EA	R	0.00	0	0	J3	78
	Vends:	NEUELE NEUMANN ELECTRONICS, INC.								
..2	6225-0052-00	CONN,8PIN,STACKER,2R,.05IN, FW-04-02-L-D-300-150 HT .300	0.00000000	EA	R	0.00	0	0	J1	79
	Mfgrs:	SAMTEC FW-04-02-L-D-300-150								
..2	6224-0012-00	CONN,MMCX ENDLAUNCH	1.00000000	EA	R	0.00	0	0	J2	80
	Vends:	DIGIKEY Digi-Key J603-ND								
	Mfgrs:	JOHNSON COMPONENTS INC 135-3711-801								
..2	6304-0001-00	SW,DIP,4POS,HALF PITCH,SMT	1.00000000	EA	R	0.00	0	0	SW1	81
	Vends:	DIGIKEY Digi-Key CKN1363-ND								
	Mfgrs:	C&K COMPONENTS TDA04H0SK1								
..2	DNP	Do Not Populate	8.00000000	EA	N	0.00	0	0	SEE REMARKS	82
	Remks:	C10,C23,C25,R29,R30,C62,C65,R99								

Notes : BOM REV-C, modified by GM 07/25/03, Corrected C3 & C41 on 08/15,

