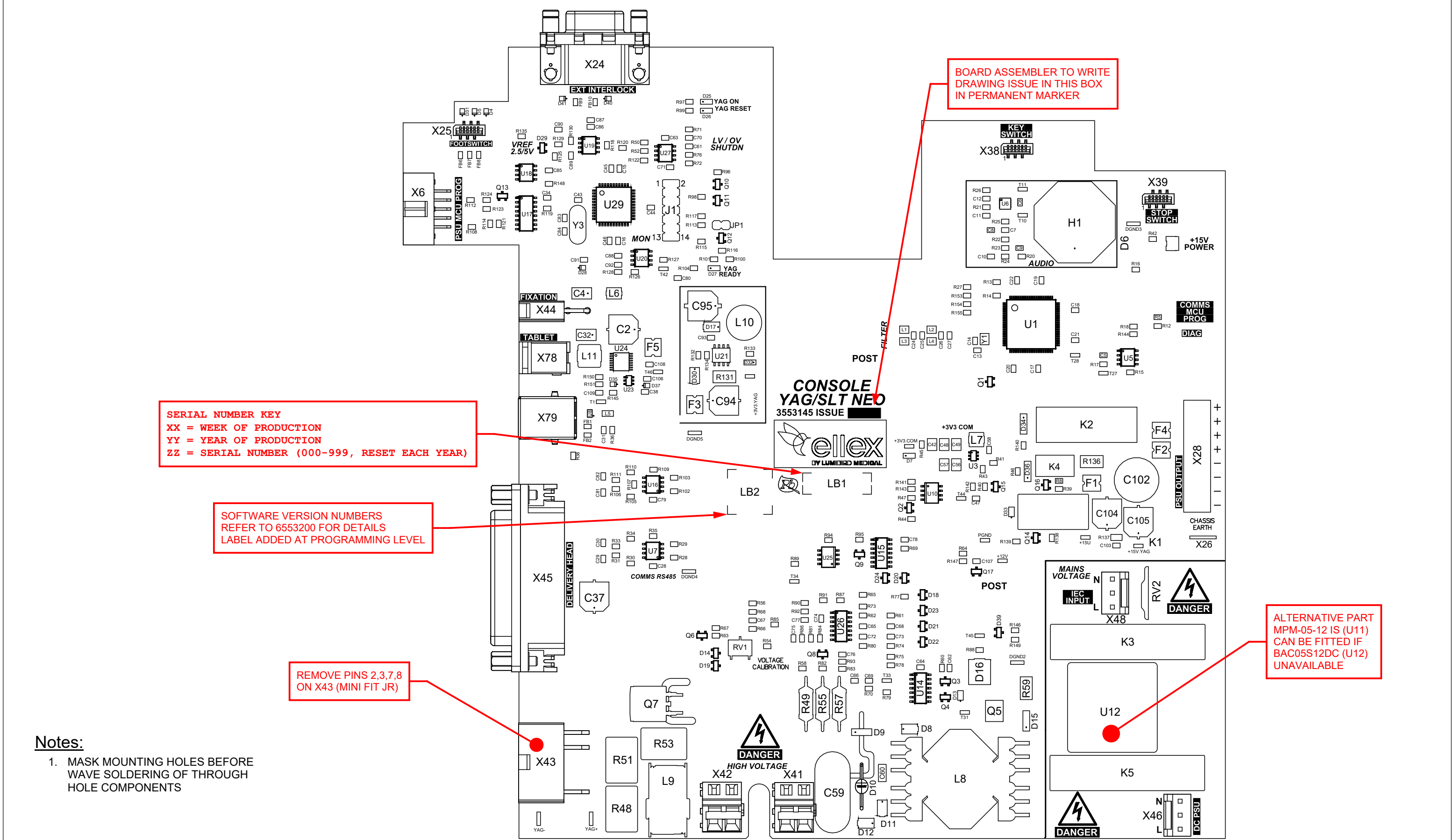


PREVIOUS		ECR	CHANGE DETAILS	DRAWN	CHECKED	APPROVED
ISS: 3.0	ECR: 07213	07213	MECHANICAL RELAYS CHANGED TO SSR's ON MAINS INPUT	NSD		



SERIAL NUMBER KEY
XX = WEEK OF PRODUCTION
YY = YEAR OF PRODUCTION
ZZ = SERIAL NUMBER (000-999, RESET EACH YEAR)

SOFTWARE VERSION NUMBERS
REFER TO 6553200 FOR DETAILS
LABEL ADDED AT PROGRAMMING LEVEL

REMOVE PINS 2,3,7,8
ON X43 (MINI FIT JR)

ALTERNATIVE PART
MPM-05-12 IS (U11)
CAN BE FITTED IF
BAC05S12DC (U12)
UNAVAILABLE

Notes:
1. MASK MOUNTING HOLES BEFORE
WAVE SOLDERING OF THROUGH
HOLE COMPONENTS

NOTES:
ALL ASSEMBLED PCB'S SHALL BE MANUFACTURED
TO CLASS 2 OF IPC-A-610 (CURRENT ISSUE)
AND BE HANDLED ACCORDING TO E.S.D. ASSOC.
STANDARD ANSI/ESD-S-20.20 (CURRENT ISSUE)
UNLESS OTHERWISE STATED

ELLEX APPROVED EQUIVALENTS MAY BE FITTED

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ellex		TITLE		PASSY	
BY LUMIBIRD MEDICAL		CONSOLE, YAG/SLT, NEO		Variant: NEO	
SCALE	GRP No	DRG No.	ISS	SIZE	SHEET No.
1:1	35	53145	4.0	A3	1 of 4

PREVIOUS		ECR	CHANGE DETAILS	DRAWN
ISS: 3.0	ECR: 07213	07213	MECHANICAL RELAYS CHANGED TO SSR's ON MAINS INPUT	NSD




Bill Of Materials

Description	Quantity	Designator	Manufacturer 1	Manufacturer Part Number 1
AMP, AUDIO, CLASS AB	1	U6	Texas Instruments	TPA6211A1DRBR
Audio Signaling/Alarm Devices	1	H1	Mallory Sonalert	MSS300R
CAP, 1nF 5%, 50V, NPO, 0805	3	C66, C68, C75	Yageo	CC0805JRNPO9BN102
CAP, 1uF 10%, 25V, X7R, 0805	3	C6, C47, C67	Yageo	CC0805KKX7R8BB105
CAP, 4n7 10%, 50V, X7R, 0805	3	C8, C9, C10	Yageo	CC0805KRX7R9BB472
CAP, 10pF 5%, 50V, NPO, 0805	1	C93	Yageo	CC0805JRNPO9BN100
CAP, 10uF 10%, 25V, TANT, B-CASE	2	C4, C32	Kyocera AVX	TAJB106K025RNJ
CAP, 10uF 10%, 25V, X5R, 0805	3	C45, C46, C87	Yageo	CC0805KKX5R8BB106
CAP, 22pF 5%, 50V, NPO, 0805	4	C13, C14, C83, C84	Yageo	CC0805JRNPO9BN220
CAP, 22pF 10%, 3000V, NPO, 1808	1	C60	TDK	C4520C0G3F220K110KA
CAP, 22u 10%, 25V, X5R, 1210	5	C42, C48, C49, C56, C57	KEMET	C1210C226K3PACTU
CAP, 33nF 3%, 1250V, TH	1	C59	Panasonic	ECW-H12333JV
CAP, 47pF 5%, 50V, NPO, 0805	1	C72	Yageo	CC0805JRNPO9BN470
CAP, 100nF 10%, 50V, 0805	33	C5, C15, C16, C17, C18, C19, C20, C21, C22, C24, C25, C26, C27, C28, C31, C34, C38, C43, C44, C58, C79, C80, C85, C86, C88, C89, C90, C91, C92, C106, C107, C108, C109	Murata	GRM21BR71H104KA01L
CAP, 100pF 10%, 50V, NPO, 0805	6	C29, C30, C65, C69, C81, C82	Yageo	CC0805JRNPO0BN101
CAP, 100uF, 25V, ELECT, SMT	5	C2, C37, C94, C104, C105	Panasonic	EEE-1EA101UP
CAP, 220nF 10%, 50V, X7R, 0805	15	C7, C11, C12, C61, C62, C63, C64, C70, C71, C73, C74, C76, C77, C78, C103	Yageo	CC0805KKX7R9BB224
CAP, 470uF, 16V, ELECT, SMT	1	C95	KEMET	EDH477M016A9MAA
CAP, 2200uF, 25V,ELECT, TH	1	C102	Rubycon	25ZLH2200MEFC12.5X30
COMPARATOR, QUAD, SOIC14	1	U26	TI National Semiconductor	LM339AMX/NOPB
CON, BLADE, 6.35mm x 0.8mm, PCB,	1	X26	AMP - TE CONNECTIVITY	62409-1
CON, HDR, 2W, 2.54mm, TH	1	JP1	Harwin	M20-9990246
CON, HDR, 8W, 3.96mm PITCH	1	X28	TE Connectivity	6404458
CONN, MTA156, 3W 2L, V	2	X46, X48	TE Connectivity	641937-1
DC JACK SOC, 2.5/5.5, R/A, TH	1	X78	CUI	PJ-102BH
Diode, 1000V, 1.5A, DO-214AC	4	D8, D9, D11, D12	Vishay Semiconductors	BYG21M-E3/TR
DIODE, 800V, 3A, SMC	1	D16	Vishay Semiconductors	RS3K-E3/57T
DIODE, ARRAY, COMMON ANODE, SOT23	1	D39	ON Semiconductor / Fairchild	BAT54C
DIODE, AVALANCHE, 1000V, 1.4A, SOD57	1	D10	Vishay	BYT52M-TR
DIODE, BZG03C68, Z, 68V, DO-214AC	1	D15	Vishay	BZG03C68-M3-08
DIODE, MBRA140T3G, 1A, 40V, DO-214AC	1	D17	ON Semiconductor	MBRA140T3G
DIODE, PAIR COMMON ANODE, SOT23	1	D24	ON Semiconductor	SBAW56LT1G
DIODE, REF, 2.5V 0.2%, SOT23	1	D29	Texas Instruments	LM4040BIM3-2.5/NOPB
DIODE, RS1A, 1A, 50V, DO-214AC	3	D30, D34, D36	Vishay Semiconductors	RS1A-E3/61T
DIODE, SCHOTTKY, 40V, 0.3A, SOD323	3	D28, D35, D37	STMicroelectronics	BAT54JFILM
DIODE, SINGLE, SOT23	5	D18, D20, D21, D22, D23	Nexperia	BAS16,215
DIODE, Z, 7V5, 0.25W, SOT-23	1	D14	ON Semiconductor	BZX84C7V5LT1G
DIODE, Z, 10V, 0.25W, SOT-23	1	D19	ON Semiconductor	BZX84C10LT1G
DIODE, Z, 16V 5%, 0.5W	2	D13, D33	ON Semiconductor	MMSZ16T1G
DTYPE, 9W, F, R/A, TH, UNC4-40	1	X24	Amphenol ICC / FCI	D09S13A4UV00LF
DTYPE_25W_R/A_TH	1	X45	Amphenol Commercial	L77SDB25SA4CH4F
FERRITE 600R, 0.5A 0805	7	FB1, FB2, FB6, FB7, FB8, FB9, FB10	TE Connectivity Sigma	BMB2A0060LN2
FFC/FPC, 6-WAY, V, 1mm PITCH, SINGLE SIDED	3	X25, X38, X39	Molex	0528080671
FILTER, CM CHOKE, CNSW, 1206	1	L5	Würth Electronics	744232090
FILTER, USB, RC(PI) 33 OHM/47PF SOT323-6L	1	U8	STMicroelectronics	USBUF01W6
FUSE, RESETABLE, 15V 1.5A, 2018	5	F1, F2, F3, F4, F5	Bourns	MF-SMDF150
HDR, 14W, 2.54mm, V, TH	1	J1	Amphenol ICC	77313-818-14LF
HDR, BOX, 10W, 2.54mm, R/A, TH	1	X6	3M	30310-5002HB
IC CURR SENSE 1 CIRCUIT TSSOP16	1	U24	Texas Instruments	INA250A4PWR
IC DAC 12BIT SERIAL 3V 8SOIC	1	U18	Analog Devices	AD7390ARZ-REEL7
IC, COMPARATOR	1	U23	Texas Instruments	TLV3701CDBVT
IC, COMPARATOR, DUAL, SOIC8	1	U27	TI National Semiconductor	LM393M/NOPB
IC, REG, VAR, 1.5A	1	U21	STMicroelectronics	MC34063ACD-TR
IC, SUPPLY MONITOR, SOIC8	1	U20	Maxim	DS1706TESA+
IND, 3.3uH 20%, 3.5A, 4.45mm x 4.06mm	1	L7	Bourns	SRP4020TA-3R3M

NOTES:
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ELLEX APPROVED EQUIVALENTS MAY BE FITTED

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		TITLE PASSY CONSOLE, YAG/SLT, NEO <i>Variant: NEO</i>			
SCALE 1:1	GRP No 35	DRG No. 53145	ISS 4.0	SIZE A3	SHEET No. 2 of 4

PREVIOUS		ECR	CHANGE DETAILS	DRAWN
ISS:3.0	ECR: 07213	07213	MECHANICAL RELAYS CHANGED TO SSR's ON MAINS INPUT	NSD



Bill Of Materials

Description	Quantity	Designator	Manufacturer 1	Manufacturer Part Number 1
IND, 10uH, 20%, 4.5A, SMT, 6.5mm x 6.5mm	1	L11	Vishay Dale	IHLP2525EZER100M01
IND, 10µH, 0.38A, 0603	4	L1, L2, L3, L4	Coilcraft	0603PS-103KLB
IND, 25uH 10%, Air core, TH	1	L9	Marque Magnetics	MM-32921N
IND, 100uH, 1A, 10x10, SMT	1	L10	TDK	SLF10145T-101M1R0-PF
IND, 220uH, 10%, 0.2A, 1813	1	L6	Würth Electronics	7447669220
INV, CMOS, HEX, SOIC14	1	U14	Nexperia	HEF40106BT,653
Labeling Materials, 19.1mm x 6.4mm Self Adhesive	1	LB1	TE Connectivity	WP-191064-10-9
LED, G, R/A, 4mm x 4mm, SMT	1	D6	Kingbright	AA4040ZGS
LED, R, 60mcd, 0805	5	D7, D25, D26, D27, D32	Würth Electronics	150080SS75000
MCU, ATMEGA8535L-8AUR, QFP44	1	U29	Microchip	ATMEGA8535L-8AUR
Mini Fit Jr, 10W, R/A, HDR, MOD PINS	1	X43	Molex	39-30-0100
MINI FIT Jr, 2W, R/A, TH	1	X44	Molex	0026013114
MPU, LPC1768FBD100,551, QFP100	1	U1	NXP Semiconductors	LPC1768FBD100,551
MUX, 2:1, 3 CHAN, CMOS, SOIC16	1	U17	Texas Instruments	CD74HC4053M96G3
NAND, 4000 CMOS, SOIC14	1	U15	ON Semiconductor	MC14093BDG
OPAMP, DUAL, 460uV Offset-Max, BiPolar, PDSO8	1	U19	Analog Devices / Linear Technology	LT2078CS8#PBF
OPTO, ISOLATOR, DUAL, TRANSISTOR O/P, SOIC08	2	U10, U25	Vishay Semiconductors	ILD207T
PSU, 5W, 12V, MODULAR, TH	1	U12	Murata	BAC05S12DC
REG, SWITCHING SOT23-6	1	U3	Diodes	AP62300TWU-7
RELAY, G6RN1, 8A, TH	1	K2	Omron	G6RN112DC
RELAY, SS, 5A, V, SIL, TH	2	K3, K5	Multicomp	MC002248
RES, 0R 1%, 0.125W, 0805	7	R12, R20, R31, R33, R38, R135, R140	Yageo	RC0805JR-070RL
RES, 0.04R 1%, 3W, 2512	1	R136	Bourns	CRA2512-FZ-R040ELF
RES, 0.05R 1%, 3W, 2512	1	R59	Bourns	CRA2512FZR050ELF
RES, 0.22R 5%, 1W, 2512	1	R131	TE Connectivity	RL73K3AR22J
RES, 1k1 1%, 0.125W, 0805	1	R134	Yageo	RC0805FR-071K1L
RES, 1k2 1%, 0.125W, 0805	2	R42, R94	Yageo	RC0805FR-071K2L
RES, 1k5 1%, 0.125W, 0805	4	R30, R34, R105, R110	Yageo	RC0805FR-071K5L
RES, 1k8 1%, 0.125W, 0805	1	R132	Yageo	RC0805FR-071K8L
RES, 1k 1%, 0.125W, 0805	21	R17, R22, R23, R24, R40, R97, R98, R99, R100, R108, R112, R114, R117, R118, R123, R124, R129, R130, R133, R138, R139	Yageo	RC0805FR-071KL
RES, 1M 1%, 0.125W, 0805	1	R126	Yageo	RC0805FR-071ML
RES, 1.21M 1%, 0.125W, 0805	1	R81	Yageo	RC0805FR-071M21L
RES, 2k2 5%, 5W, RADIAL, TH	3	R48, R51, R53	TE Connectivity	SQMR52K2J
RES, 2k 1%, 0.125W, 0805	2	R47, R141	Yageo	RC0805FR-072KL
RES, 2M2 5%, 0.5W, 3.7kW, AXIAL 15mm	3	R49, R55, R57	Vishay BCcomponents	HVR3700002204JA100
RES, 2M7 1%, 0.125W, 0805	1	R69	Yageo	RC0805FR-072M7L
RES, 2.7k 1%, 0.125W, 0805	2	R87, R145	Yageo	RC0805FR-072K7L
RES, 4.7k 1%, 0.125W, 0805	7	R5, R16, R36, R96, R101, R142, R143	Yageo	RC0805FR-074K7L
RES, 5k6 1%, 0.125W, 0805	3	R54, R90, R92	Yageo	RC0805FR-075K6L
RES, 10k7 1%, 0.125W, 0805	1	R58	Yageo	RC0805FR-0710K7L
RES, 10k 1%, 0.125W, 0805	32	R15, R26, R27, R28, R29, R35, R43, R50, R52, R65, R72, R75, R76, R77, R78, R80, R85, R88, R93, R102, R103, R104, R109, R115, R116, R121, R122, R147, R149, R153, R154, R155	Yageo	RC0805FR-0710KL
RES, 10M 1%, 0.125W, 0805	2	R61, R62	Yageo	RC0805FR-0710ML
RES, 10R 1%, 0.25W, 1206	1	R137	Yageo	RC1206FR-0710RL
RES, 12k4 1%, 0.125W, 0805	1	R74	Yageo	RC0805FR-0712K4L
RES, 12k7 1%, 0.125W, 0805	1	R120	Yageo	RC0805FR-0712K7L
RES, 15k 1%, 0.125W, 0805	3	R63, R68, R82	Yageo	RC0805FR-0715KL
RES, 20k 1%, 0.125W, 0805	5	R8, R21, R25, R39, R64	Yageo	RC0805FR-0720KL
RES, 22k 1%, 0.125W, 0805	1	R66	Yageo	RC0805FR-0722KL
RES, 33k2 1%, 0.125W, 0805	1	R41	Yageo	RC0805FR-0733K2L
RES, 33k 1%, 0.125W, 0805	2	R67, R119	Yageo	RC0805FR-0733KL
RES, 47k 1%, 0.125W, 0805	5	R44, R60, R95, R113, R150	Yageo	RC0805FR-0747KL
RES, 68R 1%, 0.125W, 0805	1	R89	Yageo	RC0805FR-0768RL
RES, 86k6 1%, 0.125W, 0805	1	R83	Yageo	RC0805FR-0786K6L

		TITLE PASSY CONSOLE, YAG/SLT, NEO <i>Variant: NEO</i>			
SCALE 1:1	GRP No 35	DRG No. 53145	ISS 4.0	SIZE A3	SHEET No. 3 of 4

