

Project : 360014 NT9010 MOTHER UA236 REV02 NA

Status : Active

Start Date:

Customer: ENG001 DSC ENGINEERING DEPARTMENT

Compl.Dte : 11-30-00

Manufactured Item: 73-00866

NT9010 MOTHER (UA236) REV02 NA

BOM Unit: 1 ea

Revision : 003

Pos.	Item	Description	Revi- sion	IC	Length [m]	Width [m]	No.o Un.	Net Quantity	Un.	Scp [%]	Wrh	Opr	P h	No. Nts	Extra Info
1231	03000466	2.2UF 10% +85C SMD 1206 16V TA		St				1.0000	ea		006	20	N	0	TOP

Location	Net Quantity
C350	1.0000

1240	03000531	CAP. 10UF 16V SMD. 4MMD X 5.4M		St				21.0000	ea		006	20	N	0	TOP
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Location	Net Quantity
C102	1.0000
C229	1.0000
C230	1.0000
C232	1.0000
C233	1.0000
C255	1.0000
C256	1.0000
C269	1.0000
C286	1.0000
C287	1.0000
C288	1.0000
C302	1.0000
C310	1.0000
C320	1.0000
C325	1.0000
C326	1.0000
C327	1.0000
C335	1.0000
C336	1.0000
C337	1.0000
C351	1.0000

1250	03000532	CAP.22UF 16V SMD. 5MMD X 5.4MM		St				1.0000	ea		006	20	N	0	TOP
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Location	Net Quantity
C240	1.0000

1260	03000533	CAP. 2200UF 25V SMD. 18MMD X 1		St				1.0000	ea		006	20	N	0	TOP
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Location	Net Quantity
C225	1.0000

1270	03000534	CAP. 1UF 50V SMD. 4MMD X 5.4MM		St				1.0000	ea		006	20	N	0	TOP
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Location	Net Quantity
C257	1.0000

1280|03000536 |CAP,SMD, 100UF16V, 6.3MMMDX5.M |St| | | | 3.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity
C227	1.0000
C252	1.0000
C263	1.0000

1290|03000558 |2.2UF/25V, +80/-20% CERAMIC CA |St| | | | 2.0000|ea | |006| 60|N| 0|BOTTOM

Location	Net Quantity
C274	1.0000
C275	1.0000

1300|03000559 |1UF/25V, 20% CERAMIC CAPACITOR |St| | | | 2.0000|ea | |006| 60|N| 0|BOTTOM

Location	Net Quantity
C273	1.0000
C305	1.0000

1310|03000559 |1UF/25V, 20% CERAMIC CAPACITOR |St| | | | 1.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity
C272	1.0000

1320|03000562 |220NF/25V 20% CERAMIC CAPACITO |St| | | | 2.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity
C266	1.0000
C303	1.0000

1330|03000680 |1N8F/50V 5% SMD (0805) NPO; MU |St| | | | 2.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity
C334	1.0000
C347	1.0000

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1340	03000709	270UF/25V ELEC. LOW ESR; D=10M		Cu				3.0000	ea		912	50	N	0	TOP

Location	Net Quantity
C295	1.0000
C296	1.0000
C304	1.0000

1350	03000597	330UF/25V ELEC. LOW ESR, LONG		St				1.0000	ea		006	50	N	0	TOP
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Location	Net Quantity
C297	1.0000

1360	04000001	NPN GP TRANSISTOR TO-92 HFE=10		St				1.0000	ea		006	50	N	0	TOP
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Location	Net Quantity
Q13	1.0000

1370	04000003	PNP GP TRANSISTOR TO-92 HFE=10		St				2.0000	ea		006	50	N	0	TOP
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Location	Net Quantity
Q15	1.0000
Q6	1.0000

1390	04000015	P-CHANNEL POWER MOSFET TO-220A		St				1.0000	ea		006	80	N	0	TOP
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Location	Net Quantity
Q116	1.0000

1410	04000053	TRANSISTOR SMD BCX69 PNP		St				1.0000	ea		006	60	N	0	BOTTOM
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Location	Net Quantity
Q37	1.0000

1420	04000071	NPN SMD SWITCHING TRANS SOT-23		St				14.0000	ea		006	60	N	0	BOTTOM
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Location	Net Quantity
Q10	1.0000
Q110	1.0000
Q115	1.0000
Q117	1.0000

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Revision : 003

Pos.	Item	Description	Revi- sion	IC	Length [m]	Width [m]	No.o Un.	Net Quantity	Un.	Scp [%]	Wrh	Opr h	P Nts	No.	Extra Info
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Location	Net Quantity
Q27	1.0000
Q28	1.0000
Q29	1.0000
Q35	1.0000
Q36	1.0000
Q40	1.0000
Q41	1.0000
Q42	1.0000
Q52	1.0000
Q7	1.0000

1430|04000071 |NPN SMD SWITCHING TRANS SOT-23| |St| | | | 13.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity
Q113	1.0000
Q114	1.0000
Q14	1.0000
Q16	1.0000
Q17	1.0000
Q18	1.0000
Q19	1.0000
Q21	1.0000
Q24	1.0000
Q25	1.0000
Q39	1.0000
Q8	1.0000
Q9	1.0000

1440|04000072 |PNP SMD SWITCHING TRANS SOT-23| |St| | | | 4.0000|ea | |006| 60|N| 0|BOTTOM

Location	Net Quantity
Q111	1.0000
Q33	1.0000
Q38	1.0000
Q43	1.0000

1445|04000072 |PNP SMD SWITCHING TRANS SOT-23| |St| | | | 4.0000|ea | |006| 20|N| 0|TOP

BOM Text
 TOP SIDE

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BOM Unit: 1 ea

Revision : 003

Pos.	Item	Description	Revi- sion	IC	Length [m]	Width [m]	No.o Un.	Net Quantity	Un.	Scp [%]	Wrh	Opr h	P Nts	No. Info	Extra
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Location	Net Quantity
Q20	1.0000
Q22	1.0000
Q23	1.0000
Q5	1.0000

1450|04000108 |N-CHANNEL MOSFET LOGIC LEVEL | |St| | | | 1.0000|ea | |006| 60|N| 0|BOTTOM

Location	Net Quantity
Q32	1.0000

1460|04000109 |PNP POWER TRANSISTOR SOT-223, | |St| | | | 1.0000|ea | |006| 60|N| 0|BOTTOM

Location	Net Quantity
Q31	1.0000

1465|05000134 |SMD VARIABLE CAPACITOR DIODE M | |St| | | | 1.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity
Q121	1.0000

1470|05000001 |HIGH CONDUCT. FAST DIODE PIV=1| |St| | | | 15.0000|ea | |006| 60|N| 0|BOTTOM

Location	Net Quantity
D103	1.0000
D109	1.0000
D110	1.0000
D115	1.0000
D120	1.0000
D123	1.0000
D127	1.0000
D152	1.0000
D153	1.0000
D156	1.0000
D159	1.0000
D160	1.0000
D162	1.0000
D163	1.0000
D3	1.0000

1480|05000001 |HIGH CONDUCT. FAST DIODE PIV=1| |St| | | | 6.0000|ea | |006| 20|N| 0|TOP

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Revision : 003

Pos.	Item	Description	Revi- sion	IC	Length [m]	Width [m]	No.o Un.	Net Quantity	Un.	Scp [%]	Wrh	Opr h	P Nts	No. Info	Extra
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Location	Net Quantity
D125	1.0000
D135	1.0000
D138	1.0000
D154	1.0000
D155	1.0000
D161	1.0000

1490|05000007 |RECOVERY RECTIFIER PIV=400V | |St| | | | 1.0000|ea | |006| 80|N| 0|TOP

Location	Net Quantity
D121	1.0000

1500|05000047 |ADJ. MICROPOWER VOLT. REF 1.20| |St| | | | 1.0000|ea | |006| 30|N| 0|TOP

Location	Net Quantity
ZD1	1.0000

1510|05000081 |ZENER DIODE 5.1V SMD E1 500MW | |St| | | | 2.0000|ea | |006| 60|N| 0|BOTTOM

Location	Net Quantity
ZD14	1.0000
ZD9	1.0000

1520|05000087 |SCHOTTKY BAR. RECTIFIER PIV=40| |St| | | | 1.0000|ea | |006| 30|N| 0|TOP

Location	Net Quantity
D1	1.0000

1530|05000097 |ZENER REGULATOR DIODE 15V 1.5W| |St| | | | 1.0000|ea | |006| 30|N| 0|TOP

Location	Net Quantity
ZD12	1.0000

1540|05000133 |ZENER DIODE 8.2V SMD F2 500MW | |St| | | | 1.0000|ea | |006| 60|N| 0|BOTTOM

Location	Net Quantity
ZD13	1.0000

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1550	05000137	SCHOTTKY BARRIER DIODE PIV=50V		St				1.0000	ea		006	20	N	0	TOP

Location	Net Quantity
ZD16	1.0000

1560	05000213	2.0A BRIDGE RECTIFIER CASE:2W0		St				1.0000	ea		006	80	N	0	TOP
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Location	Net Quantity
BRDG	1.0000

1570	05000157	ZENER DIODE 6.2V SMD 500MW 5%		St				1.0000	ea		006	20	N	0	TOP
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Location	Net Quantity
ZD15	1.0000

1580	05000195	DIODE SMD (MELF) DL4007 1A, 10		St				3.0000	ea		006	60	N	0	BOTTOM
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Location	Net Quantity
D113	1.0000
D114	1.0000
D5	1.0000

1590	05000195	DIODE SMD (MELF) DL4007 1A, 10		St				2.0000	ea		006	20	N	0	TOP
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Location	Net Quantity
D111	1.0000
D112	1.0000

1600	06000001	QUAD OP-AMP 14 PIN SMD SO-14,		St				3.0000	ea		006	20	N	0	TOP
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Location	Net Quantity
U14	1.0000
U15	1.0000
U404	1.0000

1620	06000077	DUAL LOW POWER OP-AMP 8PINSOIC		St				2.0000	ea		006	60	N	0	BOTTOM
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Location	Net Quantity
U21	1.0000
U402	1.0000

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Revision : 003

Pos.	Item	Description	Revi- sion	IC	Length [m]	Width [m]	No.o Un.	Net Quantity	Un.	Scp [%]	Wrh	Opr h	P Nts	No.	Extra Info
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Location	Net Quantity

1630|06001147 |LTV4N37S-TA-03; 6PIN SMD GULL- | |St| | | | | 2.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity
U24	1.0000
U25	1.0000

1640|06000139 |VOLTAGE DUAL COMPARATOR 8PINDI | |St| | | | | 1.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity
U401	1.0000

1650|06000589 |4K-BIT SERIAL EEPROM 8PIN SOIC | |St| | | | | 1.0000|ea | |006| 60|N| 0|BOTTOM

Location	Net Quantity
U4	1.0000

1660|06000419 |16K-BIT SERIAL EEPROM 8PIN SOI | |St| | | | | 1.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity
U19	1.0000

1670|06001076 |BLUE-LITE 3; 16 PIN SOIC; BLUE | |St| | | | | 2.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity
U18	1.0000
U2	1.0000

1690|06000784 |LM386,AUDIO AMPLIFIER LOW VOLT | |St| | | | | 2.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity
U300	1.0000
U400	1.0000

1700|06000867 |QUAD OP AMP RAIL TO RAIL SMD 8 | |St| | | | | 1.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity

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------	------	-------------	---------------	----	----------------	---------------	-------------	--------------	-----	------------	-----	-----	--------	------------	---------------

Location	Net Quantity
U13	1.0000

1710|06000869 |DC TO DC CONVERTER 5-12V 30MA | |St| | | | | 1.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity
U16	1.0000

1720|06000920 |1.5A SWITCHING REGULATOR/CONT | |St| | | | | 1.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity
U403	1.0000

1721|06001174 |RF2919; 433MHZ ASK/OOK RF-RXR; | |Cu| | | | | 1.0000|ea | |912| 20|N| 0|TOP

Location	Net Quantity
U100	1.0000

1730|11002069 |NT9010 MOTHERBOARD (UA236) | |Cu| | | | | 1.0000|ea | |912| 10|N| 0|

1740|13000062 |RELAY WITH 2.500V SURGE VOLTAG | |St| | | | | 2.0000|ea | |006| 80|N| 0|TOP

Location	Net Quantity
RLY1	1.0000
RLY3	1.0000

1760|14000380 |SOCKET, 44-PIN PLCC, SMD, LOW | |St| | | | | 2.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity
U17	1.0000
U3	1.0000

1770|14000591 |HDR-M-SNGL ROW-12POS-L.S.=0.19 | |St| | | | | 1.0000|ea | |006| 80|N| 0|TOP

Location	Net Quantity
T-1	1.0000

1780|14000606 |4 PIN SINGLE ROW DUAL INSULATO | |Cu| | | | | 1.0000|ea | |912| 80|N| 0|TOP

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------	------	-------------	---------------	----	----------------	---------------	-------------	--------------	-----	------------	-----	-----	--------	------------	---------------

BOM Text
 Header must be inserted perfectly vertical. (90 degrees to PCB)

Location	Net Quantity
J8	1.0000

1790|15000001 |MOV 39ZR 5MM TR | |St| | | | 2.0000|ea | |006| 50|N| 0|TOP

Location	Net Quantity
MV2	1.0000
MV3	1.0000

1800|15000022 |Neon Bulb 105-125V 1.9mA 1/4" | |St| | | | 1.0000|ea | |006| 80|N| 0|TOP

Location	Net Quantity
Y4	1.0000

1810|15000041 |PTC .5A Hold 1A Trip max. 4s | |St| | | | 1.0000|ea | |006| 80|N| 0|TOP

Location	Net Quantity
PTC1	1.0000

1820|15000060 |Varistor 14Vrms 10% Ism=100A | |St| | | | 6.0000|ea | |006| 50|N| 0|TOP

Location	Net Quantity
MV11	1.0000
MV12	1.0000
MV4	1.0000
MV5	1.0000
MV6	1.0000
MV7	1.0000

1830|15000094 |PTC 0.9A Hold 1.8A Trip max. t | |St| | | | 3.0000|ea | |006| 50|N| 0|TOP

Location	Net Quantity
PTC2	1.0000
PTC4	1.0000
PTC5	1.0000

1840|15000093 |Disk Varistor 250Vrms 10% Ism= | |St| | | | 1.0000|ea | |006| 80|N| 0|TOP

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------	------	-------------	---------------	----	----------------	---------------	-------------	--------------	-----	------------	-----	-----	---	----------	--------------	------

Location	Net Quantity
MV8	1.0000

1860|17000034 |Auto Transformer/Booster Coil | |St| | | | | 1.0000|ea | |006| 80|N| 0|TOP

Location	Net Quantity
T2	1.0000

1870|17000040 |Audio Transformer 300R/600R Im| |St| | | | | 1.0000|ea | |006| 80|N| 0|TOP

Location	Net Quantity
T3	1.0000

1880|22000082 |10.7MHz Ceramic Filter Toko 3 | |St| | | | | 2.0000|ea | |006| 80|N| 0|TOP

Location	Net Quantity
XTL5	1.0000
XTL7	1.0000

1890|22000083 |RF1172 SAW Filter 433.92MHz fi| |St| | | | | 1.0000|ea | |006| 80|N| 0|TOP

Location	Net Quantity
XTL6	1.0000

1900|22000064 |16MHz Ceramic Resonator 2 pin,| |St| | | | | 1.0000|ea | |006| 50|N| 0|TOP

Location	Net Quantity
XTL3	1.0000

1910|22000178 |6.6128125MHZ 20PPM HC49/U 2PIN| |Cu| | | | | 1.0000|ea | |912| 80|N| 0|TOP

Location	Net Quantity
XTL2	1.0000

1920|10000150 |39UH SMD DCR=0.31OHM DCC=0.67A| |St| | | | | 1.0000|ea | |006| 20|N| 0|TOP

Location	Net Quantity
L23	1.0000

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Location	Net Quantity

Routing for Item		: 73-00866		Routing Unit:		1 ea	
Opr.	Task	Description	WCt	Machine	Setup Time	Run Time	Extra Info
10	210	Solder Screen PCBs	C00	DEK	0	0.000	
20	220	Place/Reflow SMD Components	C00	SMT2	0	0.000	
30	250	Sequence VCD Components	B40	SEQ1	0	0.000	
40	260	Insert VCD Components	B20	VCD1	0	0.000	
50	270	Insert Radial Components	B30	RAD4	0	0.000	
60	230	Place/Glue SMD Components	C00	SMT1	0	0.000	
70	300	Spot-Mask PCB Assemblies	D00		0	0.000	
80	280	Hand Insert Components	D00		0	0.000	
90	310	Wave Solder PCB Assemblies	E10	WAVE1	0	0.000	