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# SERVICE MANUAL ADDENDUM

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## UT-119S/UT-119H/UT-126H

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# PARTS LIST

## [MAIN UNIT] (For UT-119S/H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1180002271	S.REG TK11250CMGL-G	T	29.2/10.9
IC2	1180002590	S.REG XC6204B332MR	B	12/3.7
IC3	1110006700	S.IC TB7100F (TE85L,F)	T	26.9/17.1
IC4	1180002590	S.REG XC6204B332MR	T	22.7/10.9
IC7	1110006230	S.IC NJM2711F-TE1-#ZZZB	T	25.4/2.3
IC8	1110005290	S.IC NJM27115V-TE1-#ZZZB	B	21.6/12.7
IC9	1130007021	S.IC TC7S66FU(TE85L,F)	B	22.8/16.3
IC10	1140013280	S.IC TMS320VC5507ZHH [GEN-03]	T	7.2/11.1
	1140013290	S.IC TMS320VC5509AZHH [GEN-04]		
IC11	1130006891	S.IC TC7S04FU(TE85R,F)	B	8.2/10.5
IC12	1130007281	S.IC TC7S32FU(TE85R,F)	B	8.2/13.4
IC13	1190002080	S.IC AD7476ARTZ-500RL7 <FE>	T	17.4/3
IC16	1130012910	S.IC AK4554VTP-E2/P	B	24/3
IC17	1110006230	S.IC NJM2711F-TE1-#ZZZB	B	17.2/3.7
IC18	1130014800	S.IC R1EX24064ATA00A [GEN-04] only	B	4.2/7.2
IC20	1130014210	S.IC AT25FS010N-SH27-T [GEN-03]	B	4.1/2.6
	1130013360	S.IC AT25F2048N-10SU-2.7SL383 0 [GEN-04]		
IC22	1130006891	S.IC TC7S04FU(TE85R,F)	T	15.1/10.8
IC23	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	5.3/14.5
IC24	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	14.6/14.5
IC26	1130013050	S.IC HD74LV2GT125AUSE-E	B	11/14.5
Q1	1590003550	S.TRA XP4313(TX)	B	19.8/17
Q2	1590003231	S.TRA UNR9113G0L	T	23.8/8
Q3	1530003190	S.TRA 2SC4617 TLQ [GEN-04] only	B	33.5/4.4
D1	1750001280	S.DIO CUS02(TE85L,Q)	T	24.4/14.4
D2	1790001241	S.DIO MA2S7280GL	B	8.3/16.6
D3	1790001241	S.DIO MA2S7280GL	B	5.1/17.6
D4	1790001241	S.DIO MA2S7280GL	B	6.9/17.5
D5	1790001241	S.DIO MA2S7280GL	B	4/9.7
D6	1790001241	S.DIO MA2S7280GL	B	2.5/17.6
FI1	2020002210	S.CER CFXCE450KCFA-R1	T	29.3/2.1
X1	6050012930	S.XTA CR-886 DSA321SCA 12.288 Mhz	B	15.2/9.5
L1	6200001620	S.COI ELJFC 1R0K-F	T	32.9/9.8
L2	6200012090	S.COI CDRH42D18HP-150NC	T	21.4/17.5
L3	6200007830	S.COI ELJFC 4R7K-F	T	17.3/18.8
L4	6200001620	S.COI ELJFC 1R0K-F	T	30/6.5
R1	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/14.6
R2	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	25.1/16.1
R3	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/13.7
R4	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/9
R5	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.2/9.9
R9	7030005290	S.RES ERJ2GEJ 682 X (6.8K)	T	26/6.4
R10	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	27.8/6.4
R11	7030004980	S.RES ERJ2GEJ 101 X (100)	T	25.1/6.4
R12	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	26.9/4.8
R13	7030004980	S.RES ERJ2GEJ 101 X (100)	T	22.3/2.8
R14	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	T	21.4/12
R15	7030004970	S.RES ERJ2GEJ 470 X (47)	T	20.5/1.2
R16	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	30/4.6
R18	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	15.1/18.3
R19	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	3.5/15.4
R20	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	7.1/15.4
R22	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27.6/18.1
R23	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27.1/17.2
R24	7030004980	S.RES ERJ2GEJ 101 X (100)	B	29.2/18.9
R25	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.4/18.9
R26	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.4/17.8
R27	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	T	31.2/13.7
R28	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	32.2/13.7
R32	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	B	19.6/7
R33	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	19.6/8.9
R34	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	17.3/11.8
R35	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	19.8/10.1
R36	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	21.4/10.1
R37	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	24.6/10.1
R38	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	26.3/11.9
R39	7030004980	S.RES ERJ2GEJ 101 X (100)	B	20.1/15.2
R41	7030004970	S.RES ERJ2GEJ 470 X (47)	B	13.1/6.8
R43	7030004970	S.RES ERJ2GEJ 470 X (47)	B	17.8/6.8
R44	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	17.8/5.9
R45	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	16.3/6.6
R46	7030004980	S.RES ERJ2GEJ 101 X (100)	B	18.5/1.2
R47	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	17.6/1.2
R48	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.6/4.7
R49	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.6/1.8
R50	7030010040	S.RES ERJ2GEJ-JPW	B	14.6/3.8
R51	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	29.5/19.2
R52	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	29.5/18.2
R53	7030011060	S.RES RR0510P-273-D (27K)	T	21/14.3
R54	7030008260	S.RES RR0510P-393-D (39K)	T	22/14.3
R55	7030010040	S.RES ERJ2GEJ-JPW	B	13.1/5.9
R56	7030005170	S.RES ERJ2GEJ 474 X (470K)	T	23.4/1.3
R62	7030007250	S.RES ERJ2GEJ 220 X (22)	T	15.8/8.3
R63	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	18.3/0.81
R64	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	19.6/2.8

## [MAIN UNIT] (For UT-119S/H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R69	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	20.5/8.9
R70	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/7.2
R71	7030004980	S.RES ERJ2GEJ 101 X (100)	B	
		[GEN-04] only		
R72	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	29.3/3.9
R73	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	28.4/2.2
		[GEN-04] only		
R74	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	34.2/1.6
		[GEN-04] only		
R75	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	31.9/3.9
		[GEN-04] only		
R81	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	33.8/5.9
R82	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	9.9/4.3
R83	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	8.3/4.3
R84	7030005050	S.RES ERJ2GEJ 103 X (10K)	T	12.3/4.3
R85	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	1.9/9.7
R86	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	15.8/5.6
R87	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	23.5/5.2
R88	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	22.1/6.7
R89	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	10.5/8.9
R92	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	11.4/8.9
R93	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/1.3
R94	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/2.9
R95	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/3.8
R96	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	10.5/10.7
R97	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	11.4/10.7
C1	4030018560	S.CER C2012 JB 1A 475K-T	T	32.9/12
C2	4030016930	S.CER ECJ0EB1A104K	T	26.7/11.8
C3	4030016930	S.CER ECJ0EB1A104K	T	29.9/8.3
C4	4030016930	S.CER ECJ0EB1A104K	T	26.7/10
C5	4550007070	S.TAN TEESVP 1A 475M8R	T	25.3/10.9
C6	4030018860	S.CER ECJ0EB0J105K	T	26.7/8.4
C7	4030016930	S.CER ECJ0EB1A104K	T	25.8/8.4
C9	4030016930	S.CER ECJ0EB1A104K	T	18.4/9.9
C10	4550007030	S.TAN TEESVP OJ 106M8R	T	20.1/10.9
C11	4550007070	S.TAN TEESVP 1A 475M8R	B	12/1
C12	4030016930	S.CER ECJ0EB1A104K	B	14.6/0.81
C13	4030016930	S.CER ECJ0EB1A104K	B	9.8/4.1
C14	4550007030	S.TAN TEESVP OJ 106M8R	B	10.6/6.3
C21	4030016930	S.CER ECJ0EB1A104K	T	31.6/4.6
C22	4030018910	S.CER C1608 JB OJ 475K-T	T	25.2/5
C23	4030016930	S.CER ECJ0EB1A104K	T	23.9/6.4
C24	4030016930	S.CER ECJ0EB1A104K	T	26.9/6.4
C25	4030016930	S.CER ECJ0EB1A104K	T	27.8/4.8
C26	4030016930	S.CER ECJ0EB1A104K	T	21.4/2.8
C27	4030017590	S.CER ECJ0EC1H070C	T	22.3/1.2
C28	4030017730	S.CER ECJ0EB1E471K	T	20.5/2.8
C31	4030016930	S.CER ECJ0EB1A104K	B	18.2/15
C32	4030017460	S.CER ECJ0EB1E102K	B	17.9/17.2
C33	4030016790	S.CER ECJ0EB1C103K	B	17.3/13.4
C34	4030016930	S.CER ECJ0EB1A104K	B	18/10
C35	4030017460	S.CER ECJ0EB1E102K	B	23/10.1
C36	4030017460	S.CER ECJ0EB1E271K	B	24.8/11
C37	4030017750	S.CER ECJ0EB1E122K	B	26.3/12.8
C40	4030017420	S.CER ECJ0EC1H470J	B	26.2/19.2
C41	4030017420	S.CER ECJ0EC1H470J	B	25.4/18.3
C42	4030017420	S.CER ECJ0EC1H470J	B	24.9/17.4
C43	4030017420	S.CER ECJ0EC1H470J	T	31.2/18.8
C44	4030017420	S.CER ECJ0EC1H470J	B	31.7/18.9
C45	4030017420	S.CER ECJ0EC1H470J	B	26.3/15.6
C46	4030017420	S.CER ECJ0EC1H470J	B	24.1/8.9
C47	4030017420	S.CER ECJ0EC1H470J	B	25.1/8.5
C48	4030017420	S.CER ECJ0EC1H470J	T	33.2/13.7
C51	4550007030	S.TAN TEESVP OJ 106M8R	T	24.3/17.9
C52	4030016930	S.CER ECJ0EB1A104K	T	26.2/14.2
C53	4030017770	S.CER ECJ0EB1E332K	T	31.2/19.2
C54	4550006970	S.TAN TEESVA0G476M8R	T	18.4/15.1
C55	4030016930	S.CER ECJ0EB1A104K	T	20/14.3
C56	4550006970	S.TAN TEESVA0G476M8R	T	16.2/15.1
C57	4030016790	S.CER ECJ0EB1C103K	B	17.8/7.7
C61	4030016790	S.CER ECJ0EB1C103K	B	13.9/17.6
C62	4030017460	S.CER ECJ0EB1E102K	B	19.4/2.9
C63	4030016930	S.CER ECJ0EB1A104K	B	12.9/8.6
C64	4030017430	S.CER ECJ0EC1H101J	B	14.8/6.8
C65	4030016930	S.CER ECJ0EB1A104K	B	14.8/5.9
C66	4030016930	S.CER ECJ0EB1A104K	B	19.4/1.2
C67	4030017380	S.CER ECJ0EC1H050B	B	16.7/1.2
C68	4030016930	S.CER ECJ0EB1A104K	B	15.8/1.2
C71	4030016930	S.CER ECJ0EB1A104K	B	33.8/7.1
C72	4030017460	S.CER ECJ0EB1E102K	T	18.7/8.7
C73	4030018910	S.CER C1608 JB OJ 475K-T	T	14.4/4.5
C74	4030016930	S.CER ECJ0EB1A104K	T	16.5/0.81
C81	4030018860	S.CER ECJ0EB0J105K [GEN-04] only	B	34.2/9.6
C82	4030018860	S.CER ECJ0EB0J105K	B	23.2/8.9
C83	4030017460	S.CER ECJ0EB1E102K	B	22.3/8.9
C84	4030018860	S.CER ECJ0EB0J105K	B	20.5/7
C85	4030016930	S.CER ECJ0EB1A104K	T	19.6/1.2
C86	4030018860	S.CER ECJ0EB0J105K	B	26.3/8.1
C87	4030016950	S.CER ECJ0EB1A473K	B	26.3/6.3
C88	4030016950	S.CER ECJ0EB1A473K	B	28.4/3.9
C89	4030016930	S.CER ECJ0EB1A104K	B	25.6/6
C91	4030016930	S.CER ECJ0EB1A104K	B	30.7/1.5
C92	4030018910	S.CER C1608 JB OJ 475K-T	B	29.5/1.8
C93	4030018860	S.CER ECJ0EB0J105K [GEN-04] only	B	30.3/3.9
C100	4030016790	S.CER ECJ0EB1C103K	T	14.9/8.4
C101	4030018910	S.CER C1608 JB OJ 475K-T	T	14.1/16.7
C102	4030016930	S.CER ECJ0EB1A104K	B	17.3/15

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

[MAIN UNIT] (For UT-119S/H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C103	4030016790	S.CER ECJ0EB1C103K	T	11.6/18.2
C104	4030018860	S.CER ECJ0EB0J105K	T	14/8.4
C105	4030016790	S.CER ECJ0EB1C103K	T	14.9/6.8
C106	4030016930	S.CER ECJ0EB1A104K	T	14.4/12.7
C107	4030016790	S.CER ECJ0EB1C103K	T	14/6.8
C108	4030016790	S.CER ECJ0EB1C103K	B	2.5/10.6
C109	4030018860	S.CER ECJ0EB0J105K	T	13.1/18.2
C110	4030016930	S.CER ECJ0EB1A104K	B	3.5/13.8
C111	4030016930	S.CER ECJ0EB1A104K	B	10.4/7.7
C112	4030016930	S.CER ECJ0EB1A104K	B	9.8/1.2
C113	4030016930	S.CER ECJ0EB1A104K	B	5.7/9.9
C114	4030018910	S.CER C1608 JB 0J 475K-T	T	16.6/8.8
C115	4030018910	S.CER C1608 JB 0J 475K-T	T	6.8/18
C116	4030016790	S.CER ECJ0EB1C103K	T	9.2/18.2
C117	4030017400	S.CER ECJ0EC1H220J [GEN-04] only	T	6.5/4.3
C119	4030017420	S.CER ECJ0EC1H470J [GEN-04] only	B	8.5/6.3
C120	4030017420	S.CER ECJ0EC1H470J [GEN-04] only	T	22.6/5.5
C121	4030017420	S.CER ECJ0EC1H470J [GEN-04] only	T	21.7/5.5
J1	6510026780	S.CON AXK640347YG	B	30.3/11.5
EP2	6910016330	S.BEA MMZ1005S 601CT-S	B	30.9/2.7
EP3	6910016330	S.BEA MMZ1005S 601CT-S	T	34.2/13.7
EP4	6910016330	S.BEA MMZ1005S 601CT-S	B	8.6/4.7

[MAIN-A UNIT] (For UT-126H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1180002271	S.REG TK11250CMCL-G	T	28.2/10.9
IC2	1180002590	S.REG XC6204B332MR	B	12/3.5
IC3	1110006700	S.IC TB7100F (TE85L,F)	T	26.9/17.1
IC4	1180002590	S.REG XC6204B332MR	T	22.2/10.9
IC7	1110006230	S.IC NJM2711F-TE1-#ZZZB	T	25.4/2.3
IC8	1110005290	S.IC NJM2115V-TE1-#ZZZB	B	21.6/12.7
IC9	1130007021	S.IC TC7S66FU(TE85L,F)	B	22.8/16.3
IC10	1140013290	S.IC TMS320VC5509AZHH	T	7.2/11.1
IC11	1130006891	S.IC TC7S04FU(TE85R,F)	B	8.2/10.5
IC12	1130007281	S.IC TC7S32FU(TE85R,F)	B	8.2/13.4
IC13	1190002080	S.IC AD7476ARTZ-500RL7 <FE>	T	17.4/3
IC16	1130012910	S.IC AK4554VTP-E2/P	B	24/3
IC17	1110006230	S.IC NJM2711F-TE1-#ZZZB	B	17.2/5.1
IC20	1130013360	S.IC AT25F2048N-10SU-2.7SL3830	B	4.1/2.6
IC22	1130006891	S.IC TC7S04FU(TE85R,F)	T	15.1/10.8
IC23	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	5.3/14.5
IC24	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	14.6/14.5
IC26	1130013050	S.IC HD74LV2GT125AUSE-E	B	10.8/14.5
Q1	1590003550	S.TRA XP4313(TX)	B	19.8/17
Q2	1590003231	S.TRA UNR9113G0L	T	23.8/8
Q3	1530003190	S.TRA 2SC4617 TLQ	B	33.5/4.4
Q5	1590003231	S.TRA UNR9113G0L	B	4.8/7.1
D1	1750001280	S.DIO CUS02(TE85L,Q)	T	24.4/14.4
D2	1790001241	S.DIO MA2S7280GL	B	8.3/16.6
D3	1790001241	S.DIO MA2S7280GL	B	5.1/17.3
D4	1790001241	S.DIO MA2S7280GL	B	6.9/17.5
D5	1790001241	S.DIO MA2S7280GL	B	4/9.8
D6	1790001241	S.DIO MA2S7280GL	B	3.2/18.2
FI1	2020002210	S.CER CFXCE450KCFA-R1	T	29.3/2.1
X1	6050012930	S.XTA CR-886 DSA321SCA 12.288 MHz	B	15/9.1
L1	6200007830	S.COI ELJFC 4R7K-F	T	32.9/10.4
L2	6200012090	S.COI CDRH2D18HP-150NC	T	21.9/17.6
L3	6200007830	S.COI ELJFC 4R7K-F	T	15.6/18.8
L4	6200001620	S.COI ELJFC 1R0K-F	T	21.5/14.3
R1	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/14.6
R2	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	25/16.2
R3	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/13.7
R4	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/9
R5	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.2/9.9
R9	7030005290	S.RES ERJ2GEJ 682 X (6.8K)	T	26/6.4
R10	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	27.8/6.4
R11	7030004980	S.RES ERJ2GEJ 101 X (100)	T	25.1/6.4
R12	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	26.9/4.8
R13	7030004980	S.RES ERJ2GEJ 101 X (100)	T	22.3/2.8
R14	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	T	21.4/1.2
R15	7030004970	S.RES ERJ2GEJ 470 X (47)	T	20.5/1.2
R16	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	30.6/4.5
R18	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	15.1/18.3
R19	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	3.5/15.4
R20	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	7.1/15.4
R22	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27/18.3
R23	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27/17.4
R24	7030004980	S.RES ERJ2GEJ 101 X (100)	B	28.7/19.2
R25	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.2/19.2
R26	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.2/18.3
R27	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	T	31.2/14.3
R28	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	32.2/14.3
R32	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	B	19.6/7.2
R33	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	19.6/8.9
R34	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	17.3/12.1
R35	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	19.8/10.1
R36	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	21.4/10.1
R37	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	24.6/10.1
R38	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	26.3/11.9
R39	7030004980	S.RES ERJ2GEJ 101 X (100)	B	20.1/15.2
R41	7030004970	S.RES ERJ2GEJ 470 X (47)	B	12.8/6.6
R43	7030004970	S.RES ERJ2GEJ 470 X (47)	B	18.2/8.2
R44	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	18.2/7.3
R45	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	177.5
R46	7030004980	S.RES ERJ2GEJ 101 X (100)	B	18.5/2.7
R47	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	17.6/2.7
R48	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.6/4.8
R49	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.6/2.5
R50	7030010040	S.RES ERJ2GEJ-JPW	B	14.6/3.9
R51	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	29.5/19.2
R52	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	29.5/18.2
R53	7030011060	S.RES RR0510P-273-D (27K)	T	19.6/15.9
R54	7030008260	S.RES RR0510P-393-D (39K)	T	27.7/14.2
R55	7030010040	S.RES ERJ2GEJ-JPW	B	12.8/5.7
R56	7030005170	S.RES ERJ2GEJ 474 X (470K)	T	28.7/14.2
R62	7030007250	S.RES ERJ2GEJ 220 X (22)	T	15.8/6.8
R63	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	18.3/0.81
R64	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	19.6/2.8
R69	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	20.5/8.9
R70	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/7.2
R71	7030004980	S.RES ERJ2GEJ 101 X (100)	B	29.3/3.9
R72	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	28.4/2.3
R73	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	34.2/1.6
R74	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	31.2/3.9
R75	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	33.8/5.9
R81	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	9.9/4.3
R82	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	8.3/4.3
R83	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	12.4/4.3

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

[MAIN-A UNIT] (For UT-126H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R84	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	2.3/9.8
R85	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	15.8/5.6
R86	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	22/6.5
R87	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	23.5/5.2
R91	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	10.5/8.9
R92	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	11.4/8.9
R93	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/1.3
R94	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/2.9
R95	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/3.8
R96	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	10.5/10.7
R97	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	11.4/10.7
R98	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	12.3/16.6
R99	7030004980	S.RES ERJ2GEJ 101 X (100)	T	23.2/1.2
R100	7030010040	S.RES ERJ2GEJ-JPW	T	5.3/17.9
R101	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	9.5/17.9
R102	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	1.2/6.7
R103	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	1.2/7.6
R104	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.4/11.6
R106	7030010040	S.RES ERJ2GEJ-JPW	T	18.4/6.5
R107	7030010040	S.RES ERJ2GEJ-JPW	T	17.6/5.2
R108	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	5.4/8.7
R109	7030010040	S.RES ERJ2GEJ-JPW	B	0.81/12.7
R110	7030004980	S.RES ERJ2GEJ 101 X (100)	B	3/11.6
C1	4030018560	S.CER C2012 JB 1A 475K-T	T	32.9/12.6
C2	4030016930	S.CER ECJ0EB1A104K	T	25.7/11.8
C3	4030016930	S.CER ECJ0EB1A104K	T	30.7/10.4
C4	4030016930	S.CER ECJ0EB1A104K	T	25.7/10.2
C5	4550007930	S.TAN TEESVJ 1A 475M8R	T	24.6/10.5
C6	4030018860	S.CER ECJ0EB0J105K	T	26.2/8.4
C7	4030016930	S.CER ECJ0EB1A104K	T	25.3/8.4
C9	4030016930	S.CER ECJ0EB1A104K	T	18.4/9.9
C10	4550007730	S.TAN TEESVJ 0J 106M8R	T	19.7/10.9
C11	4550007930	S.TAN TEESVJ 1A 475M8R	B	12/1.2
C12	4030016930	S.CER ECJ0EB1A104K	B	14.1/1.5
C13	4030016930	S.CER ECJ0EB1A104K	B	9.8/4.1
C14	4550007730	S.TAN TEESVJ 0J 106M8R	B	10.6/6.3
C21	4030016930	S.CER ECJ0EB1A104K	T	30.6/5.4
C22	4030018910	S.CER C1608 JB 0J 475K-T	T	25.2/5
C23	4030016930	S.CER ECJ0EB1A104K	T	23.9/6.4
C24	4030016930	S.CER ECJ0EB1A104K	T	26.9/6.4
C25	4030016930	S.CER ECJ0EB1A104K	T	27.8/4.8
C26	4030016930	S.CER ECJ0EB1A104K	T	21.4/2.8
C27	4030017590	S.CER ECJ0EC1H070C	T	22.3/1.2
C28	4030017730	S.CER ECJ0EB1E471K	T	20.5/2.8
C31	4030016930	S.CER ECJ0EB1A104K	B	18.2/15
C32	4030017460	S.CER ECJ0EB1E102K	B	17.9/17.2
C33	4030016790	S.CER ECJ0EB1C103K	B	17.3/13.7
C34	4030016930	S.CER ECJ0EB1A104K	B	18.2/10.9
C35	4030017460	S.CER ECJ0EB1E102K	B	23/10.1
C36	4030017450	S.CER ECJ0EB1E271K	B	24.8/11
C37	4030017750	S.CER ECJ0EB1E122K	B	26.3/12.8
C40	4030017420	S.CER ECJ0EC1H470J	B	27/19.2
C41	4030017420	S.CER ECJ0EC1H470J	B	25.4/18.3
C42	4030017420	S.CER ECJ0EC1H470J	B	24.9/17.4
C43	4030017420	S.CER ECJ0EC1H470J	T	31.2/18.2
C44	4030017420	S.CER ECJ0EC1H470J	B	31.6/19.2
C45	4030017420	S.CER ECJ0EC1H470J	B	25.9/16.2
C46	4030017420	S.CER ECJ0EC1H470J	B	24.1/8.9
C47	4030017420	S.CER ECJ0EC1H470J	B	25.1/8.5
C48	4030017420	S.CER ECJ0EC1H470J	T	33.2/14.3
C51	4550007730	S.TAN TEESVJ 0J 106M8R	T	24.5/17.5
C52	4030016930	S.CER ECJ0EB1A104K	T	26.2/14.2
C53	4030017770	S.CER ECJ0EB1E332K	T	31.2/19.2
C54	4030019460	S.CER C1608 JB 0J 106M-T	T	18.2/16
C55	4030016930	S.CER ECJ0EB1A104K	T	18.5/18.5
C57	4030016790	S.CER ECJ0EB1C103K	B	18.2/9.1
C61	4030016790	S.CER ECJ0EB1C103K	B	10.7/17.6
C62	4030017460	S.CER ECJ0EB1E102K	B	19.4/4.3
C63	4030016930	S.CER ECJ0EB1A104K	B	12.8/8.4
C64	4030017620	S.CER ECJ0EC1H100C	B	14.6/6.6
C65	4030016930	S.CER ECJ0EB1A104K	B	14.6/5.7
C66	4030016930	S.CER ECJ0EB1A104K	B	19.4/2.7
C67	4030017380	S.CER ECJ0EC1H050B	B	16.7/2.7
C68	4030016930	S.CER ECJ0EB1A104K	B	15.8/2.7
C71	4030016930	S.CER ECJ0EB1A104K	B	33.8/7.1
C72	4030017460	S.CER ECJ0EB1E102K	T	18.7/8.7
C73	4030018910	S.CER C1608 JB 0J 475K-T	T	14.5/4.5
C74	4030016930	S.CER ECJ0EB1A104K	T	16.5/0.81
C81	4030018860	S.CER ECJ0EB0J105K	B	34.2/9.6
C82	4030018860	S.CER ECJ0EB0J105K	B	23.2/8.9
C83	4030017460	S.CER ECJ0EB1E102K	B	22.3/8.9
C84	4030018860	S.CER ECJ0EB0J105K	B	20.5/7.2
C85	4030016930	S.CER ECJ0EB1A104K	T	19.6/1.2
C86	4030018860	S.CER ECJ0EB0J105K	B	26.3/8.1
C87	4030016950	S.CER ECJ0EB1A473K	B	26.3/6.3
C88	4030016950	S.CER ECJ0EB1A473K	B	28.4/3.9
C89	4030016930	S.CER ECJ0EB1A104K	B	25/6.6
C91	4030016930	S.CER ECJ0EB1A104K	B	30.7/1.5
C92	4030018910	S.CER C1608 JB 0J 475K-T	B	29.5/1.8
C93	4030018860	S.CER ECJ0EB0J105K	B	30.3/3.9
C99	4030018860	S.CER ECJ0EB0J105K	B	8.7/8.4
C100	4030016790	S.CER ECJ0EB1C103K	T	14.9/8.4
C101	4030018910	S.CER C1608 JB 0J 475K-T	T	14.1/16.4
C102	4030016930	S.CER ECJ0EB1A104K	B	17.3/15.3
C103	4030016790	S.CER ECJ0EB1C103K	T	12.2/18.2
C104	4030018860	S.CER ECJ0EB0J105K	T	14/8.4
C105	4030016790	S.CER ECJ0EB1C103K	T	14.9/6.8
C106	4030016930	S.CER ECJ0EB1A104K	T	14.4/12.7
C107	4030016790	S.CER ECJ0EB1C103K	T	14/6.8
C108	4030016790	S.CER ECJ0EB1C103K	B	7.8/8.4
C109	4030018860	S.CER ECJ0EB0J105K	T	13.1/18.2
C110	4030016930	S.CER ECJ0EB1A104K	B	3.5/13.8
C111	4030016930	S.CER ECJ0EB1A104K	B	10.4/7.7

[MAIN-A UNIT] (For UT-126H)

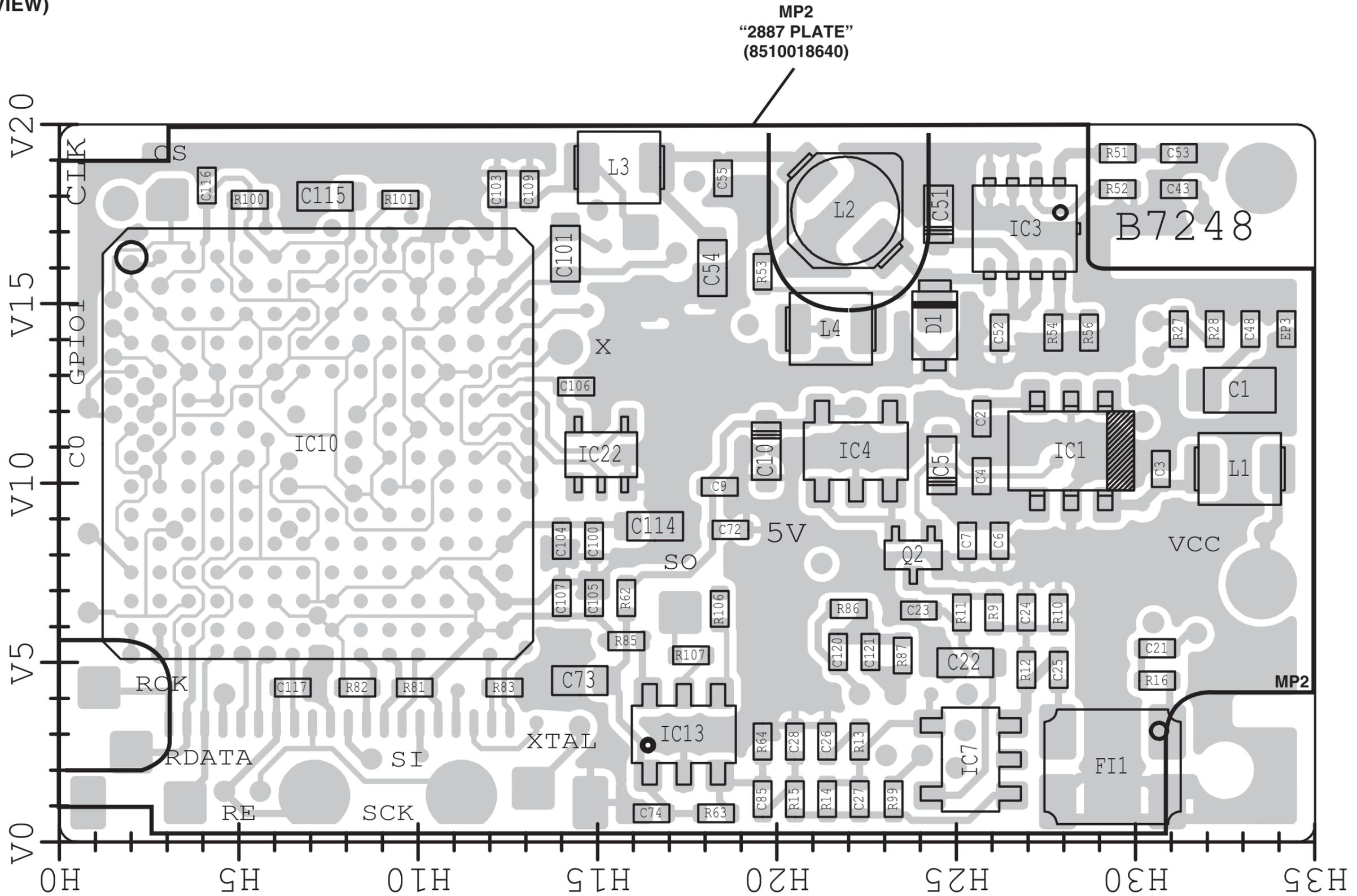
REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C112	4030016930	S.CER ECJ0EB1A104K	B	9.8/1.2
C113	4030016930	S.CER ECJ0EB1A104K	B	5.7/9.9
C114	4030018910	S.CER C1608 JB 0J 475K-T	T	16.6/8.8
C115	4030018910	S.CER C1608 JB 0J 475K-T	T	7.4/18
C116	4030016790	S.CER ECJ0EB1C103K	T	4.1/18.3
C117	4030017400	S.CER ECJ0EC1H220J	T	6.5/4.3
C119	4030017420	S.CER ECJ0EC1H470J	B	8.5/6.3
C120	4030017420	S.CER ECJ0EC1H470J	T	21.7/5.3
C121	4030017420	S.CER ECJ0EC1H470J	T	22.6/5.3
C122	4030016930	S.CER ECJ0EB1A104K	B	16/11.6
J1	6510026780	S.CON AXK640347YG	B	30.3/11.5
EP2	6910016330	S.BEA MMZ1005S 601CT-S	B	30.9/2.7
EP3	6910016330	S.BEA MMZ1005S 601CT-S	T	34.2/14.3
EP4	6910016330	S.BEA MMZ1005S 601CT-S	B	8.6/4.7
EP5	6910016330	S.BEA MMZ1005S 601CT-S	B	26.8/16.2

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

# BOARD LAYOUTS

The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.

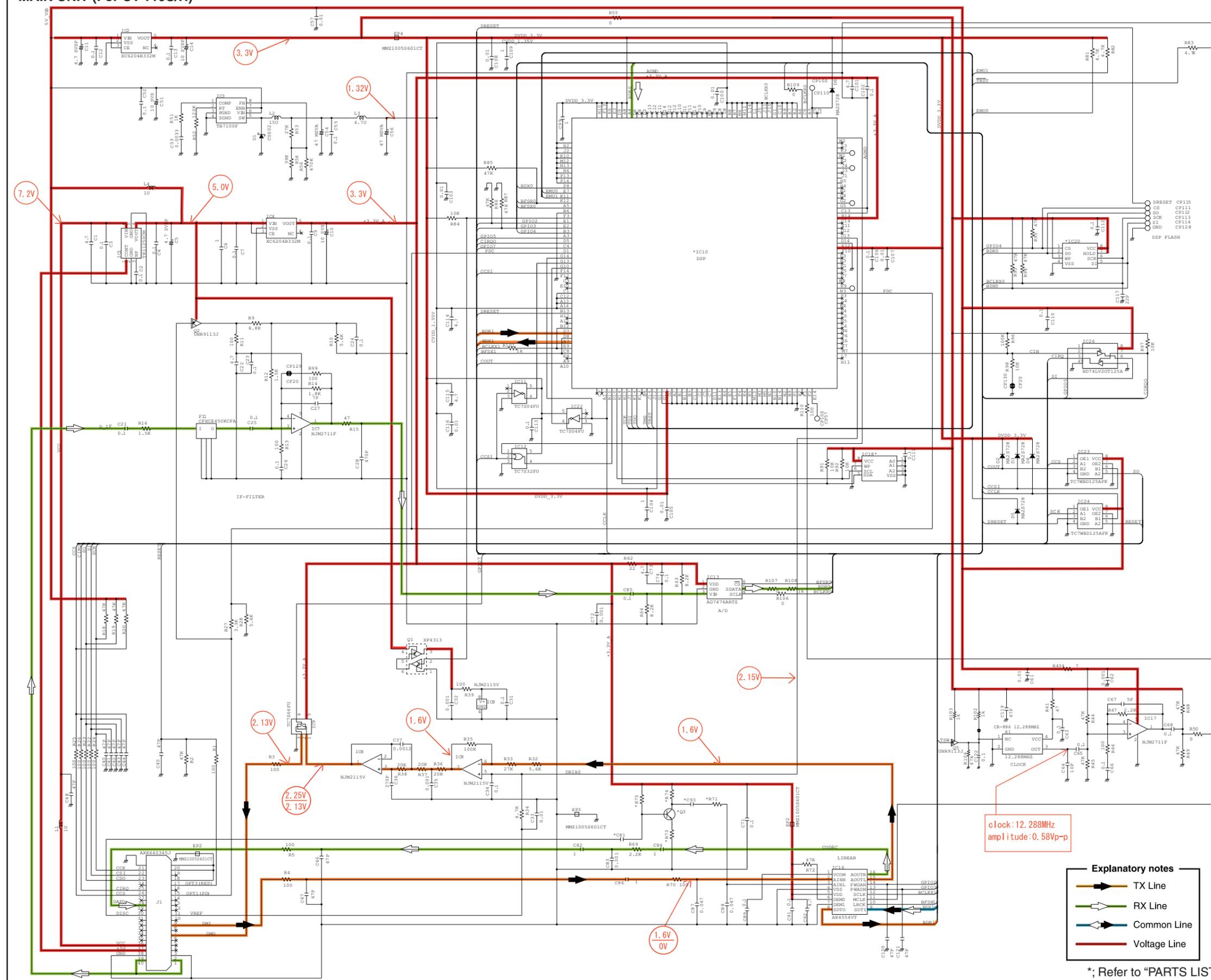
## • MAIN-A UNIT (For UT-126H) (TOP VIEW)





# VOLTAGE DIAGRAM

## • MAIN UNIT (For UT-119S/H)

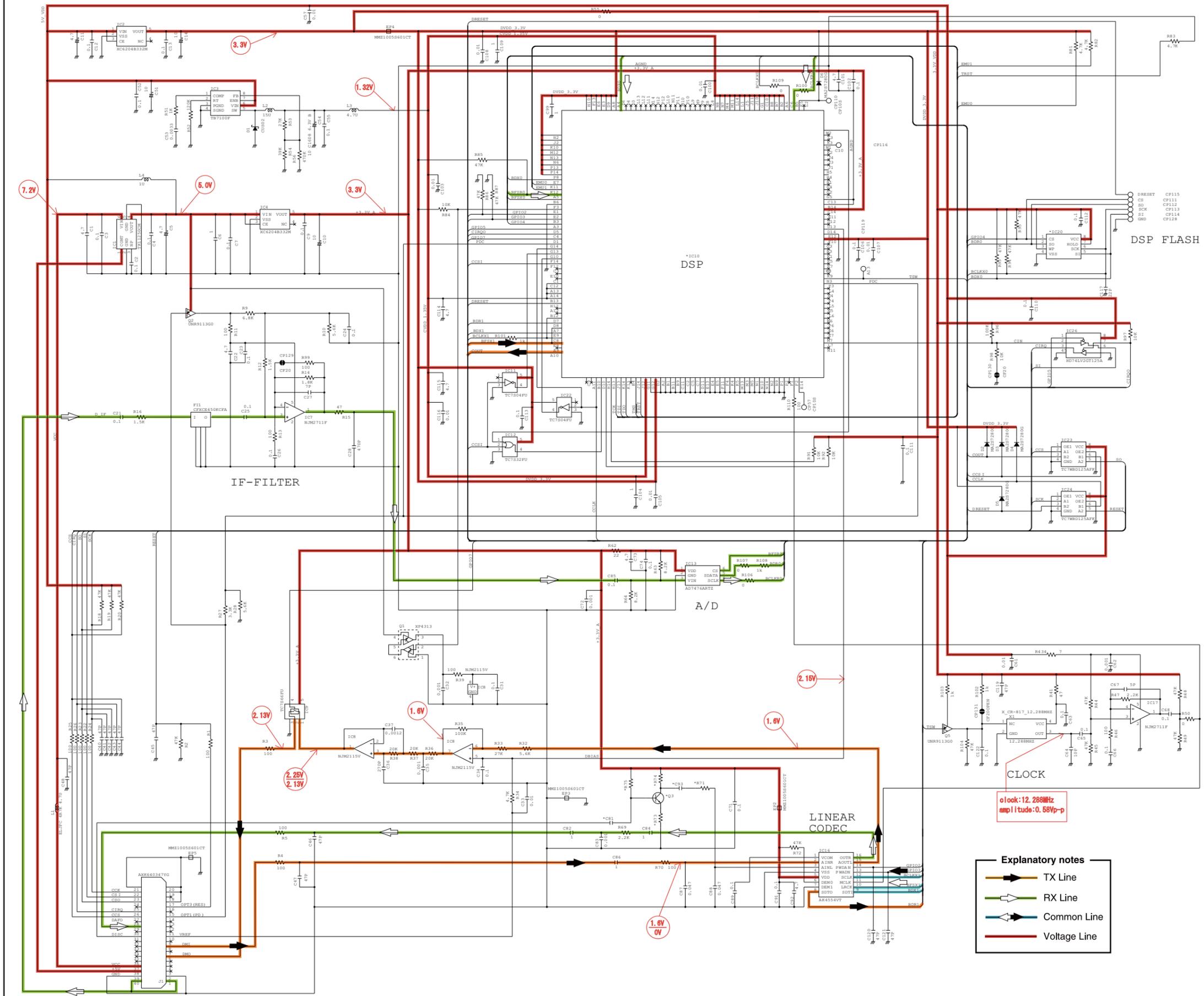


clock:12.288MHz  
amplitude:0.58Vp-p

- Explanatory notes**
- TX Line
  - RX Line
  - Common Line
  - Voltage Line

\*; Refer to "PARTS LIST"

• MAIN-A UNIT (For UT-126H)



clock: 12.288MHz  
amplitude: 0.58Vp-p

- Explanatory notes**
- TX Line
  - RX Line
  - Common Line
  - Voltage Line

\*; Refer to "PARTS LIST"



May. 2009

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# SERVICE MANUAL ADDENDUM

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## UT-119S UT-119H UT-126H

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# PARTS LIST

## [MAIN UNIT] (For UT-119S/H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1180002271	S.REG TK11250CMCL-G	T	29.2/10.9
IC2	1180002590	S.REG XC6204B332MR	B	12/3.7
IC3	1110006700	S.IC TB7100F (TE85L,F)	T	26.9/17.1
IC4	1180002590	S.REG XC6204B332MR	T	22.7/10.9
IC7	1110006230	S.IC NJM2711F-TE1-#ZZZB	T	25.4/2.3
IC8	1110005290	S.IC NJM2115V-TE1-#ZZZB	B	21.6/12.7
IC9	1130007021	S.IC TC7S66FU(TE85L,F)	B	22.8/16.3
IC10	1140013280	S.IC TMS320VC5507ZHH [GEN-03]	T	7.2/11.1
	1140013290	S.IC TMS320VC5509AZHH [GEN-04]		
IC11	1130006891	S.IC TC7S04FU(TE85R,F)	B	8.2/10.5
IC12	1130007281	S.IC TC7S32FU(TE85R,F)	B	8.2/13.4
IC13	1190002080	S.IC AD7476ARTZ-500RL7	T	17.4/3
IC16	1130012910	S.IC AK4554VTP-E2/P	B	24/3
IC17	1110006230	S.IC NJM2711F-TE1-#ZZZB	B	17.2/3.7
IC18	1140008650	S.IC HN58X2464T10 [GEN-04]	B	4.2/7.2
IC20	1130014210	S.IC AT25F010N-SH27-T [GEN-03]	B	4.1/2.6
	1130013360	S.IC AT25F2048N-10SU-2.7SL383 [GEN-04]		
IC22	1130006891	S.IC TC7S04FU(TE85R,F)	T	15.1/10.8
IC23	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	5.3/14.5
IC24	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	14.6/14.5
IC26	1130013050	S.IC HD74LV2GT125AUSE-E	B	11/14.5
Q1	1590003550	S.TRA XP4313(TX)	B	19.8/17
Q2	1590003231	S.TRA UNR9113G0-(TX)	T	23.8/8
Q3	1530003190	S.TRA 2SC4617 TLQ [GEN-04] only	B	33.5/4.4
D1	1750001280	S.DIO CUS02(TE85L,Q)	T	24.4/14.4
D2	1790001241	S.DIO MA2S7280G	B	8.3/16.6
D3	1790001241	S.DIO MA2S7280G	B	5.1/17.6
D4	1790001241	S.DIO MA2S7280G	B	6.9/17.5
D5	1790001241	S.DIO MA2S7280G	B	4/9.7
D6	1790001241	S.DIO MA2S7280G	B	2.5/17.6
FI1	2020002210	S.CER CFXCE450KCFR-R10	T	29.3/2.1
X1	6050012930	S.XTA CR-886 DSB321SC 12.288 MHz	B	15.2/9.5
L1	6200001620	S.COI ELJFC 1R0K-F	T	32.9/9.8
L2	6200012090	S.COI CDRH2D18HP-150NC	T	21.4/17.5
L3	6200007830	S.COI ELJFC 4R7K-F	T	17.3/18.8
L4	6200001620	S.COI ELJFC 1R0K-F	T	30/6.5
R1	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/14.6
R2	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	25.1/16.1
R3	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/13.7
R4	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/9
R5	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.2/9.9
R9	7030005290	S.RES ERJ2GEJ 682 X (6.8K)	T	26/6.4
R10	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	27.8/6.4
R11	7030004980	S.RES ERJ2GEJ 101 X (100)	T	25.1/6.4
R12	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	26.9/4.8
R13	7030004980	S.RES ERJ2GEJ 101 X (100)	T	22.3/2.8
R14	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	T	21.4/1.2
R15	7030004970	S.RES ERJ2GEJ 470 X (47)	T	20.5/17.2
R16	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	30/4.6
R18	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	15.1/18.3
R19	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	3.5/14.4
R20	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	7.1/15.4
R22	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27.6/18.1
R23	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27.1/17.2
R24	7030004980	S.RES ERJ2GEJ 101 X (100)	B	29.2/18.9
R25	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.4/18.9
R26	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.4/17.8
R27	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	T	31.2/13.7
R28	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	32.2/13.7
R32	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	B	19.6/7
R33	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	19.6/8.9
R34	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	17.3/11.8
R35	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	19.8/10.1
R36	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	21.4/10.1
R37	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	24.6/10.1
R38	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	26.3/11.9
R39	7030004980	S.RES ERJ2GEJ 101 X (100)	B	20.1/15.2
R41	7030004970	S.RES ERJ2GEJ 470 X (47)	B	13.1/6.8
R42	7030005240	S.RES ERJ2GEJ 473 X (47K)		
R43	7030004970	S.RES ERJ2GEJ 470 X (47)	B	17.8/6.8
R44	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	17.8/5.9
R45	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	16.3/6.6
R46	7030004980	S.RES ERJ2GEJ 101 X (100)	B	18.5/1.2
R47	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	17.6/1.2
R48	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.6/4.7
R49	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.6/1.8
R50	7030010040	S.RES ERJ2GEJ-JPW	B	14.6/3.8
R51	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	29.5/19.2

## [MAIN UNIT] (For UT-119S/H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R52	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	29.5/18.2
R53	7030011060	S.RES RR0510P-273-D (27K)	T	21/14.3
R54	7030008260	S.RES RR0510P-393-D (39K)	T	22/14.3
R55	7030010040	S.RES ERJ2GEJ-JPW	B	13.1/5.9
R56	7030005170	S.RES ERJ2GEJ 474 X (470K)	T	23/14.3
R62	7030007250	S.RES ERJ2GEJ 220 X (22)	T	15.8/6.8
R63	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	18.3/0.8
R64	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	19.6/2.8
R69	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	20.5/8.9
R70	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/7.2
R71	7030004980	S.RES ERJ2GEJ 101 X (100) [GEN-04] only	B	29.3/3.9
R72	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	28.4/2.3
R73	7030005120	S.RES ERJ2GEJ 102 X (1K) [GEN-04] only	B	34.2/1.6
R74	7030005120	S.RES ERJ2GEJ 102 X (1K) [GEN-04] only	B	31.9/3.9
R75	7030008300	S.RES ERJ2GEJ 184 X (180K) [GEN-04] only	B	33.8/5.9
R81	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	9.9/4.3
R82	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	8.3/4.3
R83	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	12.3/4.3
R84	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	1.9/9.7
R85	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	15.8/5.6
R86	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	23.5/5.2
R87	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	22.1/6.7
R91	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	10.5/8.9
R92	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	11.4/8.9
R93	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/1.3
R94	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/2.9
R95	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/3.8
R96	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	10.5/10.7
R97	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	11.4/10.7
C1	4030018560	S.CER C2012 JB 1A 475K-T	T	32.9/12
C2	4030016930	S.CER ECJ0EB1A104K	T	26.7/11.8
C3	4030016930	S.CER ECJ0EB1A104K	T	29.9/8.3
C4	4030016930	S.CER ECJ0EB1A104K	T	26.7/10
C5	4550007070	S.TAN TEESVP 1A 475M8R	T	25.3/10.9
C6	4030018860	S.CER ECJ0EB0J105K	T	26.7/8.4
C7	4030016930	S.CER ECJ0EB1A104K	T	25.8/8.4
C9	4030016930	S.CER ECJ0EB1A104K	T	18.4/9.9
C10	4550007030	S.TAN TEESVP 0J 106M8R	T	20.1/10.9
C11	4550007070	S.TAN TEESVP 1A 475M8R	B	12/1
C12	4030016930	S.CER ECJ0EB1A104K	B	14.6/0.8
C13	4030016930	S.CER ECJ0EB1A104K	B	9.8/4.1
C14	4550007030	S.TAN TEESVP 0J 106M8R	B	10.6/6.3
C21	4030016930	S.CER ECJ0EB1A104K	T	31.6/4.6
C22	4030018910	S.CER C1608 JB 0J 475K-T	T	25.2/5
C23	4030016930	S.CER ECJ0EB1A104K	T	23.9/6.4
C24	4030016930	S.CER ECJ0EB1A104K	T	26.9/6.4
C25	4030016930	S.CER ECJ0EB1A104K	T	27.8/4.8
C26	4030016930	S.CER ECJ0EB1A104K	T	21.4/2.8
C27	4030017590	S.CER ECJ0EC1H070C	T	22.3/1.2
C28	4030017730	S.CER ECJ0EB1E471K	T	20.5/2.8
C31	4030016930	S.CER ECJ0EB1A104K	B	18.2/15
C32	4030017460	S.CER ECJ0EB1E102K	B	17.9/17.2
C33	4030016790	S.CER ECJ0EB1C103K	B	17.3/13.4
C34	4030016930	S.CER ECJ0EB1A104K	B	18/10
C35	4030017460	S.CER ECJ0EB1E102K	B	23/10.1
C36	4030017450	S.CER ECJ0EB1E271K	B	24.8/11
C37	4030017750	S.CER ECJ0EB1E122K	B	26.3/12.8
C40	4030017420	S.CER ECJ0EC1H470J	B	26.2/19.2
C41	4030017420	S.CER ECJ0EC1H470J	B	25.4/18.3
C42	4030017420	S.CER ECJ0EC1H470J	B	24.9/17.4
C43	4030017420	S.CER ECJ0EC1H470J	T	31.2/18.2
C44	4030017420	S.CER ECJ0EC1H470J	B	31.7/18.9
C45	4030017420	S.CER ECJ0EC1H470J	B	26.3/15.6
C46	4030017420	S.CER ECJ0EC1H470J	B	24.1/8.9
C47	4030017420	S.CER ECJ0EC1H470J	B	25.1/8.5
C48	4030017420	S.CER ECJ0EC1H470J	T	33.2/13.7
C51	4550007030	S.TAN TEESVP 0J 106M8R	T	24.3/17.9
C52	4030016930	S.CER ECJ0EB1A104K	T	26.2/14.2
C53	4030017770	S.CER ECJ0EB1E332K	T	31.2/19.2
C54	4550006970	S.TAN TEESVA0G476M8R	T	18.4/15.1
C55	4030016930	S.CER ECJ0EB1A104K	T	20/14.3
C56	4550006970	S.TAN TEESVA0G476M8R	T	16.2/15.1
C57	4030016790	S.CER ECJ0EB1C103K	B	17.8/7.7
C61	4030016790	S.CER ECJ0EB1C103K	B	13.9/17.6
C62	4030017460	S.CER ECJ0EB1E102K	B	19.4/2.9
C63	4030016930	S.CER ECJ0EB1A104K	B	12.9/6.8
C64	4030017430	S.CER ECJ0EC1H101J	B	14.8/6.8
C65	4030016930	S.CER ECJ0EB1A104K	B	14.8/5.9
C66	4030016930	S.CER ECJ0EB1A104K	B	19.4/11.2
C67	4030017380	S.CER ECJ0EC1H050B	B	16.7/1.2
C68	4030016930	S.CER ECJ0EB1A104K	B	15.8/1.2
C71	4030016930	S.CER ECJ0EB1A104K	B	33.8/7.1
C72	4030017460	S.CER ECJ0EB1E102K	T	18.7/8.7
C73	4030018910	S.CER C1608 JB 0J 475K-T	T	14.4/4.5
C74	4030016930	S.CER ECJ0EB1A104K	T	16.5/0.81
C81	4030018860	S.CER ECJ0EB0J105K [GEN-04] only	B	34.2/9.6

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

[MAIN UNIT] (For UT-119S/H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C82	4030018860	S.CER ECJ0EB0J105K	B	23.2/8.9
C83	4030017460	S.CER ECJ0EB1E102K	B	22.3/8.9
C84	4030018860	S.CER ECJ0EB0J105K	B	20.5/7
C85	4030016930	S.CER ECJ0EB1A104K	T	19.6/1.2
C86	4030018860	S.CER ECJ0EB0J105K	B	26.3/8.1
C87	4030016950	S.CER ECJ0EB1A473K	B	26.3/6.3
C88	4030016950	S.CER ECJ0EB1A473K	B	28.4/3.9
C89	4030016930	S.CER ECJ0EB1A104K	B	25/6.6
C91	4030016930	S.CER ECJ0EB1A104K	B	30.7/1.5
C92	4030018910	S.CER C1608 JB 0J 475K-T	B	29.5/1.8
C93	4030018860	S.CER ECJ0EB0J105K [GEN-04] only	B	30.3/3.9
C100	4030016790	S.CER ECJ0EB1C103K	T	14.9/8.4
C101	4030018910	S.CER C1608 JB 0J 475K-T	T	14.1/16.7
C102	4030016930	S.CER ECJ0EB1A104K	B	17.3/15
C103	4030016790	S.CER ECJ0EB1C103K	T	11.6/18.2
C104	4030018860	S.CER ECJ0EB0J105K	T	14/8.4
C105	4030016790	S.CER ECJ0EB1A103K	T	14.9/6.8
C106	4030016930	S.CER ECJ0EB1A104K	T	14.4/12.7
C107	4030016790	S.CER ECJ0EB1C103K	T	14/6.8
C108	4030016790	S.CER ECJ0EB1C103K	B	2.5/10.6
C109	4030018860	S.CER ECJ0EB0J105K	T	13.1/18.2
C110	4030016930	S.CER ECJ0EB1A104K	B	3.5/13.8
C111	4030016930	S.CER ECJ0EB1A104K	B	10.4/7.7
C112	4030016930	S.CER ECJ0EB1A104K	B	9.8/1.2
C113	4030016930	S.CER ECJ0EB1A104K	B	5.7/9.9
C114	4030018910	S.CER C1608 JB 0J 475K-T	T	16.6/8.8
C115	4030018910	S.CER C1608 JB 0J 475K-T	T	6.8/18
C116	4030016790	S.CER ECJ0EB1C103K	T	9.2/18.2
C117	4030017400	S.CER ECJ0EC1H220J [GEN-04] only	T	6.5/4.3
C119	4030017420	S.CER ECJ0EC1H470J [GEN-04] only	B	8.5/6.3
C120	4030017420	S.CER ECJ0EC1H470J [GEN-04] only	T	22.6/5.5
C121	4030017420	S.CER ECJ0EC1H470J [GEN-04] only	T	21.7/5.5
J1	6510025230	S.CON AXK640345J2	B	30.3/11.5
EP2	6910016330	S.BEA MMZ1005S 601CT-S	B	30.9/2.7
EP3	6910016330	S.BEA MMZ1005S 601CT-S	T	34.2/13.7
EP4	6910016330	S.BEA MMZ1005S 601CT-S	B	8.6/4.7

[MAIN-A UNIT] (For UT-126H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1180002271	S.REG TK11250CMCL-G	T	28.2/10.9
IC2	1180002590	S.REG XC6204B332MR	B	12/3.5
IC3	1110006700	S.IC TB7100F (TE85L,F)	T	26.9/17.1
IC4	1180002590	S.REG XC6204B332MR	T	22.2/10.9
IC7	1110006230	S.IC NJM2711F-TE1-#ZZZB	T	25.4/2.3
IC8	1110005290	S.IC NJM2115V-TE1-#ZZZB	B	21.6/12.7
IC9	1130007021	S.IC TC7S66FU(TE85L,F)	B	22.8/16.3
IC10	1140013290	S.IC TMS320VC5509AZHH	T	7.2/11.1
IC11	1130006891	S.IC TC7S04FU(TE85R,F)	B	8.2/10.5
IC12	1130007281	S.IC TC7S32FU(TE85R,F)	B	8.2/13.4
IC13	1190002080	S.IC AD7476ARTZ-500RL7	T	17.4/3
IC16	1130012910	S.IC AK4554VTP-E2/P	B	24/3
IC17	1110006230	S.IC NJM2711F-TE1-#ZZZB	B	17.2/5.1
IC20	1130013360	S.IC AT25F2048N-10SU-2.7SL383	B	4.1/2.6
IC22	1130006891	S.IC TC7S04FU(TE85R,F)	T	15.1/10.8
IC23	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	5.3/14.5
IC24	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	14.6/14.5
IC26	1130013050	S.IC HD74LV2GT125AUSE-E	B	10.8/14.5
Q1	1590003550	S.TRA XP4313(TX)	B	19.8/17
Q2	1590003231	S.TRA UNR9113G0-(TX)	T	23.8/8
Q3	1530003190	S.TRA 2SC4617 TLQ	B	33.5/4.4
Q5	1590003231	S.TRA UNR9113G0-(TX)	B	4.8/7.1
D1	1750001280	S.DIO CUS02(TE85L,Q)	T	24.4/14.4
D2	1790001241	S.DIO MA2S7280G	B	8.3/16.6
D3	1790001241	S.DIO MA2S7280G	B	5.1/17.3
D4	1790001241	S.DIO MA2S7280G	B	6.9/17.5
D5	1790001241	S.DIO MA2S7280G	B	4/9.8
D6	1790001241	S.DIO MA2S7280G	B	3.2/18.2
F11	2020002210	S.CER CFXCE450KCFA-R10	T	29.3/2.1
X1	6050012930	S.XTA CR-886 DSA321SCA 12.288 MHz	B	15/9.1
L1	6200001620	S.COI ELJFC 1R0K-F	T	32.9/10.4
L2	6200012090	S.COI CDRH2D18HP-150NC	T	21.9/17.6
L3	6200007830	S.COI ELJFC 4R7K-F	T	15.6/18.8
L4	6200001620	S.COI ELJFC 1R0K-F	T	21.5/14.3
R1	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/14.6
R2	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	25/16.2
R3	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/13.7
R4	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/9
R5	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.2/9.9
R9	7030005290	S.RES ERJ2GEJ 682 X (6.8K)	T	26/6.4
R10	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	27.8/6.4
R11	7030004980	S.RES ERJ2GEJ 101 X (100)	T	25.1/6.4
R12	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	26.9/4.8
R13	7030004980	S.RES ERJ2GEJ 101 X (100)	T	22.3/2.8
R14	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	T	21.4/1.2
R15	7030004970	S.RES ERJ2GEJ 470 X (47)	T	20.5/1.2
R16	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	30.6/4.5
R18	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	15.1/18.3
R19	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	3.5/15.4
R20	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	7.1/15.4
R22	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27/18.3
R23	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27/17.4
R24	7030004980	S.RES ERJ2GEJ 101 X (100)	B	28.7/19.2
R25	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.2/19.2
R26	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.2/18.3
R27	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	T	31.2/14.3
R28	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	32.2/14.3
R32	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	B	19.6/7.2
R33	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	19.6/8.9
R34	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	17.3/12.1
R35	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	19.8/10.1
R36	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	21.4/10.1
R37	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	24.6/10.1
R38	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	26.3/11.9
R39	7030004980	S.RES ERJ2GEJ 101 X (100)	B	20.1/15.2
R41	7030004970	S.RES ERJ2GEJ 470 X (47)	B	12.8/6.6
R43	7030004970	S.RES ERJ2GEJ 470 X (47)	B	18.2/8.2
R44	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	18.2/7.3
R45	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	17.7/5
R46	7030004980	S.RES ERJ2GEJ 101 X (100)	B	18.5/2.7
R47	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	17.6/2.7
R48	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.6/4.8
R49	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.6/2.5
R50	7030010040	S.RES ERJ2GEJ-JPW	B	14.6/3.9
R51	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	29.5/19.2
R52	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	29.5/18.2
R53	7030011060	S.RES RR0510P-273-D (27K)	T	19.6/15.9
R54	7030008260	S.RES RR0510P-393-D (39K)	T	27.7/14.2
R55	7030010040	S.RES ERJ2GEJ-JPW	B	12.8/5.7
R56	7030005170	S.RES ERJ2GEJ 474 X (470K)	T	28.7/14.2
R62	7030007250	S.RES ERJ2GEJ 220 X (22)	T	15.8/6.8
R63	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	18.3/0.81
R64	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	19.6/2.8
R69	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	20.5/8.9
R70	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/7.2
R71	7030004980	S.RES ERJ2GEJ 101 X (100)	B	29.3/3.9

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

[MAIN-A UNIT] (For UT-126H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R72	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	28.4/2.3
R73	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	34.2/1.6
R74	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	31.2/3.9
R75	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	33.8/5.9
R81	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	9.9/4.3
R82	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	8.3/4.3
R83	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	12.4/4.3
R84	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	2.3/9.8
R85	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	15.8/5.6
R86	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	22/6.5
R87	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	23.5/5.2
R91	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	10.5/8.9
R92	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	11.4/8.9
R93	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/1.3
R94	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/2.9
R95	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/3.8
R96	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	10.5/10.7
R97	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	11.4/10.7
R98	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	12.3/16.6
R99	7030004980	S.RES ERJ2GEJ 101 X (100)	T	23.2/1.2
R100	7030010040	S.RES ERJ2GEJ-JPW	T	5.3/17.9
R101	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	9.5/17.9
R102	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	1.2/6.7
R103	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	1.2/7.6
R104	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.4/11.6
R106	7030010040	S.RES ERJ2GEJ-JPW	T	18.4/6.5
R107	7030010040	S.RES ERJ2GEJ-JPW	T	17.6/5.2
R108	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	5.4/8.7
R109	7030010040	S.RES ERJ2GEJ-JPW	B	0.81/12.7
R110	7030004980	S.RES ERJ2GEJ 101 X (100)	B	3/11.6
C1	4030018560	S.CER C2012 JB 1A 475K-T	T	32.9/12.6
C2	4030016930	S.CER ECJ0EB1A104K	T	25.7/11.8
C3	4030016930	S.CER ECJ0EB1A104K	T	30.7/10.4
C4	4030016930	S.CER ECJ0EB1A104K	T	25.7/10.2
C5	4550007930	S.TAN TEESVJ 1A 475M8R	T	24.6/10.5
C6	4030018860	S.CER ECJ0EB0J105K	T	26.2/8.4
C7	4030016930	S.CER ECJ0EB1A104K	T	25.3/8.4
C9	4030016930	S.CER ECJ0EB1A104K	T	18.4/9.9
C10	4550007730	S.TAN TEESVJ 0J 106M8R	T	19.7/10.9
C11	4550007930	S.TAN TEESVJ 1A 475M8R	B	12/1.2
C12	4030016930	S.CER ECJ0EB1A104K	B	14.1/1.5
C13	4030016930	S.CER ECJ0EB1A104K	B	9.8/4.1
C14	4550007730	S.TAN TEESVJ 0J 106M8R	B	10.6/6.3
C21	4030016930	S.CER ECJ0EB1A104K	T	30.6/5.4
C22	4030018910	S.CER C1608 JB 0J 475K-T	T	25.2/5
C23	4030016930	S.CER ECJ0EB1A104K	T	23.9/6.4
C24	4030016930	S.CER ECJ0EB1A104K	T	26.9/6.4
C25	4030016930	S.CER ECJ0EB1A104K	T	27.8/4.8
C26	4030016930	S.CER ECJ0EB1A104K	T	21.4/2.8
C27	4030017590	S.CER ECJ0EC1H070C	T	22.3/1.2
C28	4030017730	S.CER ECJ0EB1E471K	T	20.5/2.8
C31	4030016930	S.CER ECJ0EB1A104K	B	18.2/15
C32	4030017460	S.CER ECJ0EB1E102K	B	17.9/17.2
C33	4030016790	S.CER ECJ0EB1C103K	B	17.3/13.7
C34	4030016930	S.CER ECJ0EB1A104K	B	18.2/10.9
C35	4030017460	S.CER ECJ0EB1E102K	B	23/10.1
C36	4030017450	S.CER ECJ0EB1E271K	B	24.8/11
C37	4030017750	S.CER ECJ0EB1E122K	B	26.3/12.8
C40	4030017420	S.CER ECJ0EC1H470J	B	27/19.2
C41	4030017420	S.CER ECJ0EC1H470J	B	25.4/18.3
C42	4030017420	S.CER ECJ0EC1H470J	B	24.9/17.4
C43	4030017420	S.CER ECJ0EC1H470J	T	31.2/18.2
C44	4030017420	S.CER ECJ0EC1H470J	B	31.6/19.2
C45	4030017420	S.CER ECJ0EC1H470J	B	25.9/16.2
C46	4030017420	S.CER ECJ0EC1H470J	B	24.1/8.9
C47	4030017420	S.CER ECJ0EC1H470J	B	25.1/8.5
C48	4030017420	S.CER ECJ0EC1H470J	T	33.2/14.3
C51	4550007730	S.TAN TEESVJ 0J 106M8R	T	24.5/17.5
C52	4030016930	S.CER ECJ0EB1A104K	T	26.2/14.2
C53	4030017770	S.CER ECJ0EB1E332K	T	31.2/19.2
C54	4550007720	S.TAN TEESVP 0G 476M8R	T	18.2/16
C55	4030016930	S.CER ECJ0EB1A104K	T	18.5/18.5
C56	4550007720	S.TAN TEESVP 0G 476M8R	T	16.2/16
C57	4030016790	S.CER ECJ0EB1C103K	B	18.2/9.1
C61	4030016790	S.CER ECJ0EB1C103K	B	10.7/17.6
C62	4030017460	S.CER ECJ0EB1E102K	B	19.4/4.3
C63	4030016930	S.CER ECJ0EB1A104K	B	12.8/8.4
C64	4030017620	S.CER ECJ0EC1H100C	B	14.6/6.6
C65	4030016930	S.CER ECJ0EB1A104K	B	14.6/5.7
C66	4030016930	S.CER ECJ0EB1A104K	B	19.4/2.7
C67	4030017380	S.CER ECJ0EC1H050B	B	16.7/2.7
C68	4030016930	S.CER ECJ0EB1A104K	B	15.8/2.7
C71	4030016930	S.CER ECJ0EB1A104K	B	33.8/7.1
C72	4030017460	S.CER ECJ0EB1E102K	T	18.7/8.7
C73	4030018910	S.CER C1608 JB 0J 475K-T	T	14.5/4.5
C74	4030016930	S.CER ECJ0EB1A104K	T	16.5/0.81
C81	4030018860	S.CER ECJ0EB0J105K	B	34.2/9.6
C82	4030018860	S.CER ECJ0EB0J105K	B	23.2/8.9
C83	4030017460	S.CER ECJ0EB1E102K	B	22.3/8.9
C84	4030018860	S.CER ECJ0EB0J105K	B	20.5/7.2
C85	4030016930	S.CER ECJ0EB1A104K	T	19.6/1.2
C86	4030018860	S.CER ECJ0EB0J105K	B	26.3/8.1
C87	4030016950	S.CER ECJ0EB1A473K	B	26.3/6.3
C88	4030016950	S.CER ECJ0EB1A473K	B	28.4/3.9
C89	4030016930	S.CER ECJ0EB1A104K	B	25/6.6
C91	4030016930	S.CER ECJ0EB1A104K	B	30.7/1.5
C92	4030018910	S.CER C1608 JB 0J 475K-T	B	29.5/1.8

[MAIN-A UNIT] (For UT-126H)

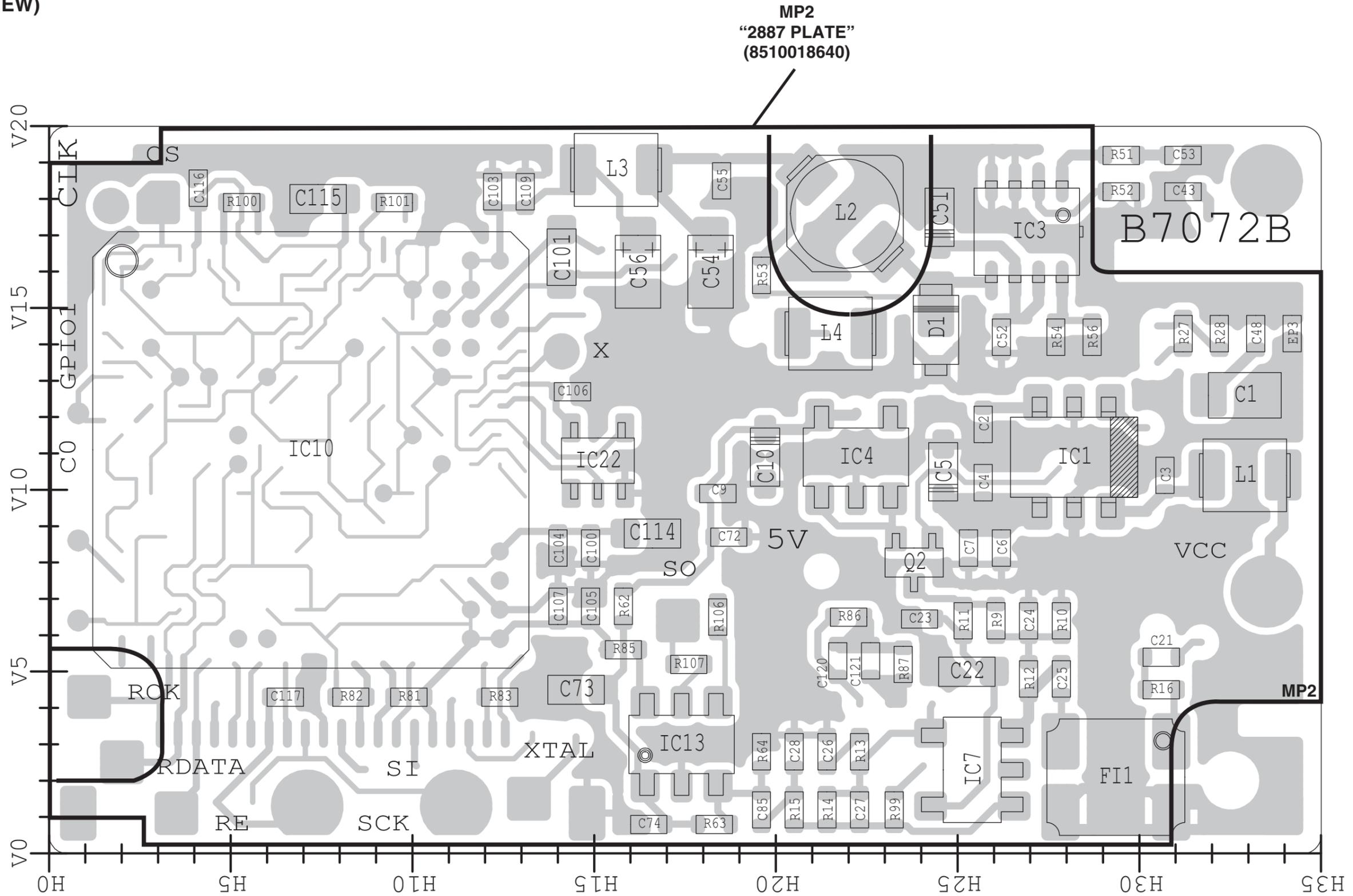
REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C93	4030018860	S.CER ECJ0EB0J105K	B	30.3/3.9
C99	4030018860	S.CER ECJ0EB0J105K	B	8.7/8.4
C100	4030016790	S.CER ECJ0EB1C103K	T	14.9/8.4
C101	4030018910	S.CER C1608 JB 0J 475K-T	T	14.1/16.4
C102	4030016930	S.CER ECJ0EB1A104K	B	17.3/15.3
C103	4030016790	S.CER ECJ0EB1C103K	T	12.2/18.2
C104	4030018860	S.CER ECJ0EB0J105K	T	14/8.4
C105	4030016790	S.CER ECJ0EB1C103K	T	14.9/6.8
C106	4030016930	S.CER ECJ0EB1A104K	T	14.4/12.7
C107	4030016790	S.CER ECJ0EB1C103K	T	14/6.8
C108	4030016790	S.CER ECJ0EB1C103K	B	7.8/8.4
C109	4030018860	S.CER ECJ0EB0J105K	T	13.1/18.2
C110	4030016930	S.CER ECJ0EB1A104K	B	3.5/13.8
C111	4030016930	S.CER ECJ0EB1A104K	B	10.4/7.7
C112	4030016930	S.CER ECJ0EB1A104K	B	9.8/1.2
C113	4030016930	S.CER ECJ0EB1A104K	B	5.7/9.9
C114	4030018910	S.CER C1608 JB 0J 475K-T	T	16.6/8.8
C115	4030018910	S.CER C1608 JB 0J 475K-T	T	7.4/18
C116	4030016790	S.CER ECJ0EB1C103K	T	4.1/18.3
C117	4030017400	S.CER ECJ0EC1H220J	T	6.5/4.3
C119	4030017420	S.CER ECJ0EC1H470J	B	8.5/6.3
C120	4030017420	S.CER ECJ0EC1H470J	T	21.7/5.3
C121	4030017420	S.CER ECJ0EC1H470J	T	22.6/5.3
C122	4030016930	S.CER ECJ0EB1A104K	B	16/11.6
J1	6510025230	S.CON AXK640345J2	B	30.3/11.5
EP2	6910016330	S.BEA MMZ1005S 601CT-S	B	30.9/2.7
EP3	6910016330	S.BEA MMZ1005S 601CT-S	T	34.2/14.3
EP4	6910016330	S.BEA MMZ1005S 601CT-S	B	8.6/4.7
EP5	6910016330	S.BEA MMZ1005S 601CT-S	B	26.8/16.2

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

# BOARD LAYOUTS

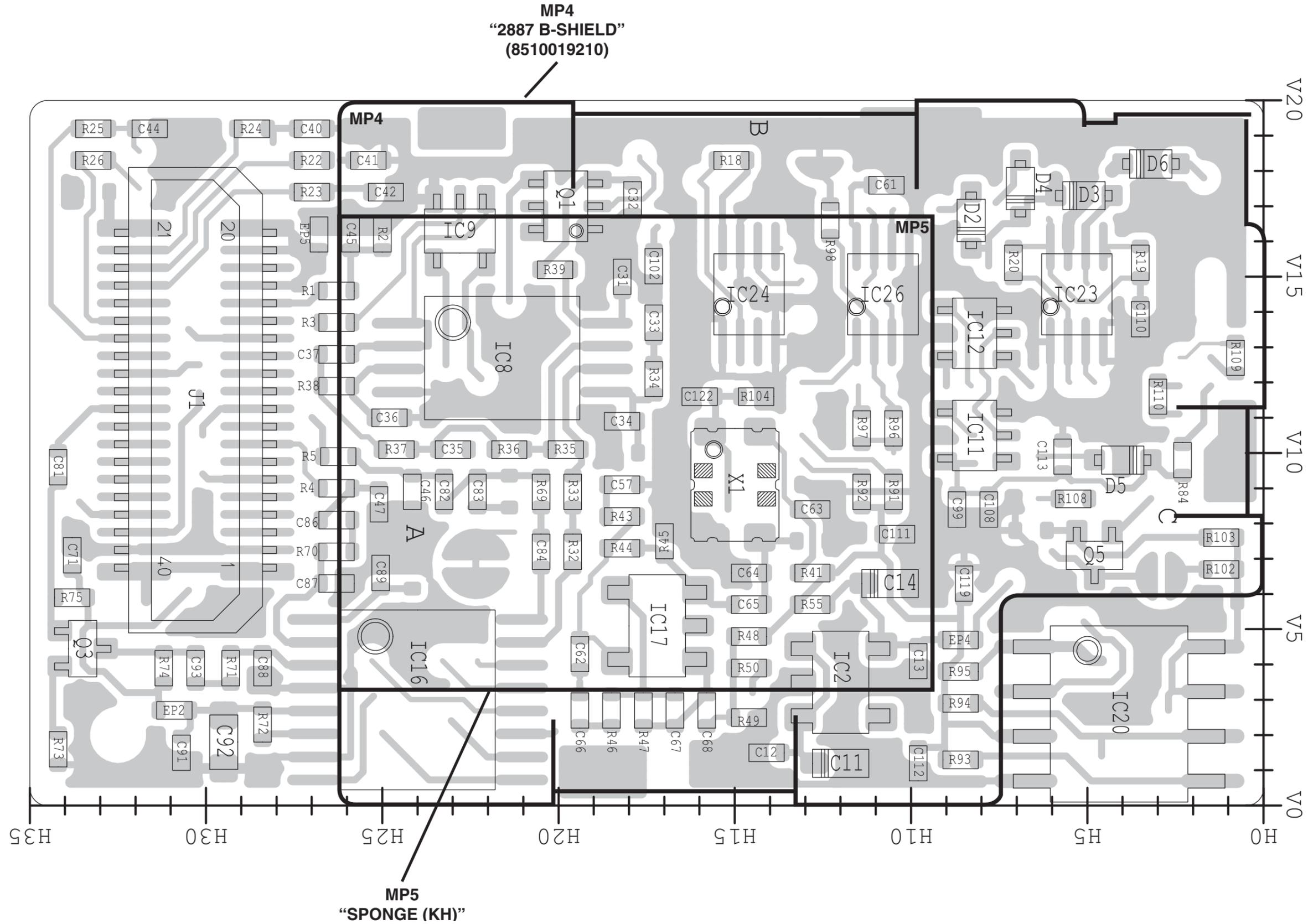
The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.

## • MAIN-A UNIT (For UT-126H) (TOP VIEW)



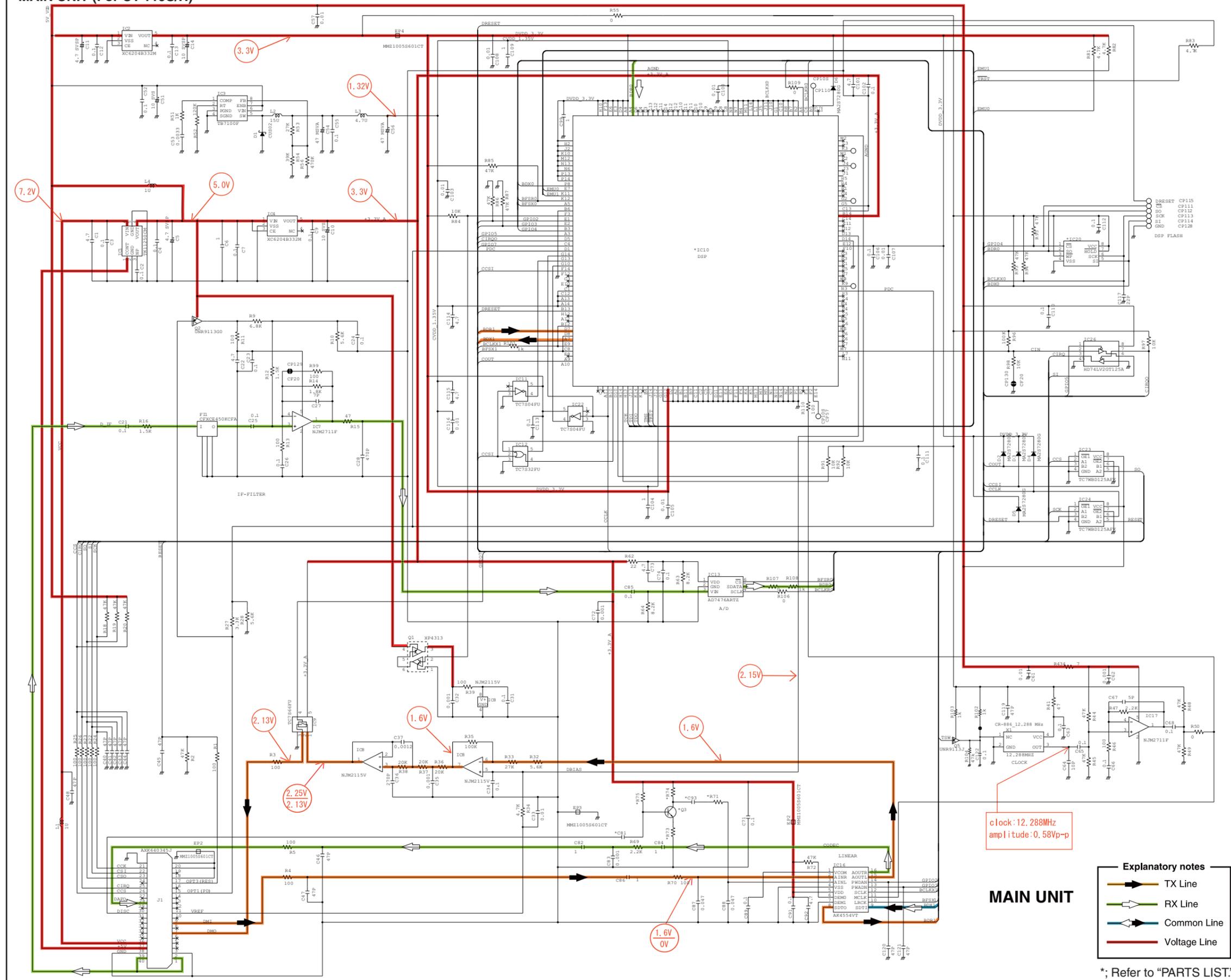
The combination of this side and the bottom side shows the board layout in the same configuration as the actual P.C.Board.

• MAIN-A UNIT (For UT-126H)  
(BOTTOM VIEW)



# VOLTAGE DIAGRAM

## • MAIN UNIT (For UT-119S/H)

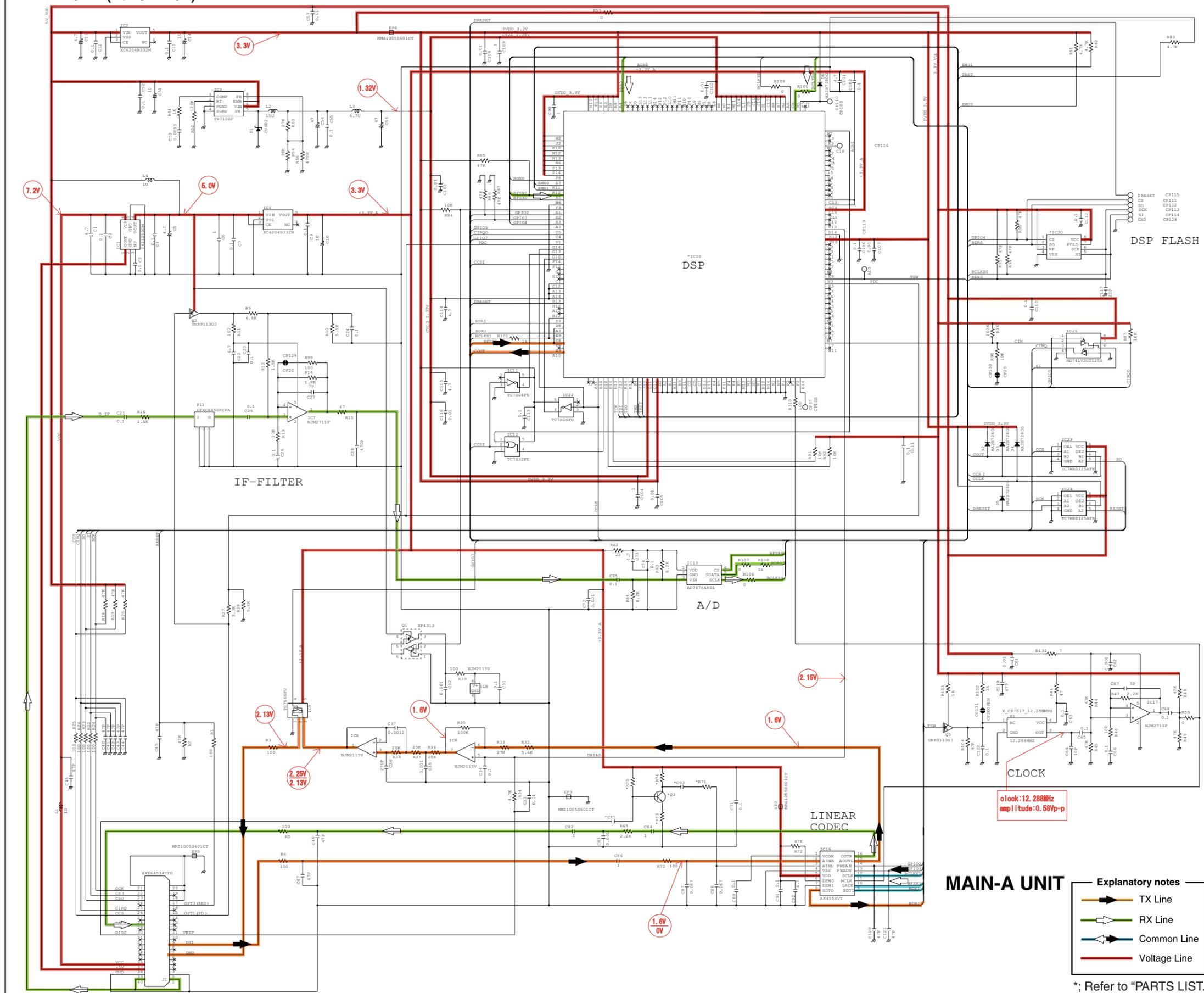


clock: 12.288MHz  
amplitude: 0.58Vp-p

- Explanatory notes**
- TX Line
  - RX Line
  - Common Line
  - Voltage Line

\*; Refer to "PARTS LIST."

• MAIN-A UNIT (For UT-126H)



**MAIN-A UNIT**

**Explanatory notes**

- TX Line
- RX Line
- Common Line
- Voltage Line

\*; Refer to "PARTS LIST."



Sep. 2008

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# SERVICE MANUAL ADDENDUM

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## UT-119S UT-119H UT-126H

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# PARTS LIST

## [MAIN UNIT] (For UT-119S/H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1180002271	S.REG TK11250CMCL-G	T	29.2/10.9
IC2	1180002590	S.REG XC6204B332MR	B	12/3.7
IC3	1110006700	S.IC TB7100F (TE85L,F)	T	26.9/17.1
IC4	1180002590	S.REG XC6204B332MR	T	22.7/10.9
IC7	1110006230	S.IC NJM2711F-TE1-#ZZZB	T	25.4/2.3
IC8	1110005290	S.IC NJM2115V-TE1-#ZZZB	B	21.6/12.7
IC9	1130007021	S.IC TC7S66FU(TE85L,F)	B	22.8/16.3
IC10	1140013280	S.IC TMS320VC5507ZHH [GEN-03]	T	7.2/11.1
	1140013290	S.IC TMS320VC5509AZHH [GEN-04]		
IC11	1130006891	S.IC TC7S04FU(TE85R,F)	B	8.2/10.5
IC12	1130007281	S.IC TC7S32FU(TE85R,F)	B	8.2/13.4
IC13	1190002080	S.IC AD7476ARTZ-500RL7	T	17.4/3
IC16	1130012910	S.IC AK4554VTP-E2/P	B	24/3
IC17	1110006230	S.IC NJM2711F-TE1-#ZZZB	B	17.2/3.7
IC18	1140008650	S.IC HN58X2464T10 [GEN-04]	B	4.2/7.2
IC20	1130014210	S.IC AT25FS010N-SH27-T [GEN-03]	B	4.1/2.6
	1130013360	S.IC AT25F2048N-10SU-2.7SL383 [GEN-04]		
IC22	1130006891	S.IC TC7S04FU(TE85R,F)	T	15.1/10.8
IC23	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	5.3/14.5
IC24	1130013040	S.DIO TC7WBD125AFK(T5L,F)	B	14.6/14.5
IC26	1130013050	S.IC HD74LV2GT125AUSE-E	B	11/14.5
Q1	1590003550	S.TRA XP4313(TX)	B	19.8/17
Q2	1590003230	S.TRA UNR9113J-(TX)	T	23.8/8
Q3	1530003190	S.TRA 2SC4617 TLQ [GEN-04] only	B	33.5/4.4
D1	1750001280	S.DIO CUS02(TE85L,Q)	T	24.4/14.4
D2	1790001240	S.DIO MA2S728-(TX)	B	8.3/16.6
D3	1790001240	S.DIO MA2S728-(TX)	B	5.1/17.6
D4	1790001240	S.DIO MA2S728-(TX)	B	6.9/17.5
D5	1790001240	S.DIO MA2S728-(TX)	B	4/9.7
D6	1790001240	S.DIO MA2S728-(TX)	B	2.5/17.6
FI1	2020002210	S.CER CFXCE450KCF-A-R10	T	29.3/2.1
X1	6050012350	S.XTA CR-817 DSB321SC 12.288 MHz	B	15.2/9.5
L1	6200001620	S.COI ELJFC 1R0K-F	T	32.9/9.8
L2	6200012090	S.COI CDRH2D18HP-150NC	T	21.4/17.5
L3	6200007830	S.COI ELJFC 4R7K-F	T	17.3/18.8
L4	6200001620	S.COI ELJFC 1R0K-F	T	30/6.5
R1	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/14.6
R2	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	25.1/16.1
R3	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/13.7
R4	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/9
R5	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.2/9.9
R9	7030005290	S.RES ERJ2GEJ 682 X (6.8K)	T	26/6.4
R10	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	27.8/6.4
R11	7030004980	S.RES ERJ2GEJ 101 X (100)	T	25.1/6.4
R12	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	26.9/4.8
R13	7030004980	S.RES ERJ2GEJ 101 X (100)	T	22.3/2.8
R14	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	T	21.4/1.2
R15	7030004970	S.RES ERJ2GEJ 470 X (47)	T	20.5/19.7
R16	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	30/4.6
R18	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	15.1/18.3
R19	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	3.5/14.4
R20	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	7.1/15.4
R22	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27.6/18.1
R23	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27.1/17.2
R24	7030004980	S.RES ERJ2GEJ 101 X (100)	B	29.2/18.9
R25	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.4/18.9
R26	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.4/17.8
R27	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	T	31.2/13.7
R28	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	32.2/13.7
R32	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	B	19.6/7
R33	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	19.6/8.9
R34	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	17.3/11.8
R35	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	19.8/10.1
R36	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	21.4/10.1
R37	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	24.6/10.1
R38	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	26.3/11.9
R39	7030004980	S.RES ERJ2GEJ 101 X (100)	B	20.1/15.2
R41	7030004970	S.RES ERJ2GEJ 470 X (47)	B	13.1/6.8
R42	7030005240	S.RES ERJ2GEJ 473 X (47K)		
R43	7030004970	S.RES ERJ2GEJ 470 X (47)	B	17.8/6.8
R44	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	17.8/5.9
R45	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	16.3/6.6
R46	7030004980	S.RES ERJ2GEJ 101 X (100)	B	18.5/1.2
R47	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	17.6/1.2
R48	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.6/4.7
R49	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.6/1.8
R50	7030010040	S.RES ERJ2GEJ-JPW	B	14.6/3.8
R51	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	29.5/19.2
R52	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	29.5/18.2

## [MAIN UNIT] (For UT-119S/H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R53	7030011060	S.RES RR0510P-273-D (27K)	T	21/14.3
R54	7030008260	S.RES RR0510P-393-D (39K)	T	22/14.3
R55	7030010040	S.RES ERJ2GEJ-JPW	B	13.1/5.9
R56	7030005170	S.RES ERJ2GEJ 474 X (470K)	T	23/14.3
R62	7030007250	S.RES ERJ2GEJ 220 X (22)	T	15.8/6.8
R63	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	18.3/0.8
R64	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	19.6/2.8
R69	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	20.5/8.9
R70	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/7.2
R71	7030004980	S.RES ERJ2GEJ 101 X (100)		
		[GEN-04] only	B	29.3/3.9
R72	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	28.4/2.3
R73	7030005120	S.RES ERJ2GEJ 102 X (1K)		
		[GEN-04] only	B	34.2/1.6
R74	7030005120	S.RES ERJ2GEJ 102 X (1K)		
		[GEN-04] only	B	31.9/3.9
R75	7030008300	S.RES ERJ2GEJ 184 X (180K)		
		[GEN-04] only	B	33.8/5.9
R81	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	9.9/4.3
R82	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	8.3/4.3
R83	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	12.3/4.3
R84	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	1.9/9.7
R85	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	15.8/5.6
R86	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	23.5/5.2
R87	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	22.1/6.7
R91	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	10.5/8.9
R92	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	11.4/8.9
R93	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/1.3
R94	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/2.9
R95	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/3.8
R96	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	10.5/10.7
R97	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	11.4/10.7
C1	4030018560	S.CER C2012 JB 1A 475K-T	T	32.9/12
C2	4030016930	S.CER ECJ0EB1A104K	T	26.7/11.8
C3	4030016930	S.CER ECJ0EB1A104K	T	29.9/8.3
C4	4030016930	S.CER ECJ0EB1A104K	T	26.7/10
C5	4550007070	S.TAN TEESVP 1A 475M8R	T	25.3/10.9
C6	4030018860	S.CER ECJ0EB0J105K	T	26.7/8.4
C7	4030016930	S.CER ECJ0EB1A104K	T	25.8/8.4
C9	4030016930	S.CER ECJ0EB1A104K	T	18.4/9.9
C10	4550007030	S.TAN TEESVP 0J 106M8R	T	20.1/10.9
C11	4550007070	S.TAN TEESVP 1A 475M8R	B	12/1
C12	4030016930	S.CER ECJ0EB1A104K	B	14.6/0.8
C13	4030016930	S.CER ECJ0EB1A104K	B	9.8/4.1
C14	4550007030	S.TAN TEESVP 0J 106M8R	B	10.6/6.3
C21	4030016930	S.CER ECJ0EB1A104K	T	31.6/4.6
C22	4030018910	S.CER C1608 JB 0J 475K-T	T	25.2/5
C23	4030016930	S.CER ECJ0EB1A104K	T	23.9/6.4
C24	4030016930	S.CER ECJ0EB1A104K	T	26.9/6.4
C25	4030016930	S.CER ECJ0EB1A104K	T	27.8/4.8
C26	4030016930	S.CER ECJ0EB1A104K	T	21.4/2.8
C27	4030017590	S.CER ECJ0EC1H070C	T	22.3/1.2
C28	4030017730	S.CER ECJ0EB1E471K	T	20.5/2.8
C31	4030016930	S.CER ECJ0EB1A104K	B	18.2/15
C32	4030017460	S.CER ECJ0EB1E102K	B	17.9/17.2
C33	4030016790	S.CER ECJ0EB1C103K	B	17.3/13.4
C34	4030016930	S.CER ECJ0EB1A104K	B	18/10
C35	4030017460	S.CER ECJ0EB1E102K	B	23/10.1
C36	4030017450	S.CER ECJ0EB1E271K	B	24.8/11
C37	4030017750	S.CER ECJ0EB1E122K	B	26.3/12.8
C40	4030017420	S.CER ECJ0EC1H470J	B	26.2/19.2
C41	4030017420	S.CER ECJ0EC1H470J	B	25.4/18.3
C42	4030017420	S.CER ECJ0EC1H470J	B	24.9/17.4
C43	4030017420	S.CER ECJ0EC1H470J	T	31.2/18.2
C44	4030017420	S.CER ECJ0EC1H470J	B	31.7/18.9
C45	4030017420	S.CER ECJ0EC1H470J	B	26.3/15.6
C46	4030017420	S.CER ECJ0EC1H470J	B	24.1/8.9
C47	4030017420	S.CER ECJ0EC1H470J	B	25.1/8.5
C48	4030017420	S.CER ECJ0EC1H470J	T	33.2/13.7
C51	4550007030	S.TAN TEESVP 0J 106M8R	T	24.3/17.9
C52	4030016930	S.CER ECJ0EB1A104K	T	26.2/14.2
C53	4030017770	S.CER ECJ0EB1E332K	T	31.2/19.2
C54	4550006970	S.TAN TEESVA0G476M8R	T	18.4/15.1
C55	4030016930	S.CER ECJ0EB1A104K	T	20/14.3
C56	4550006970	S.TAN TEESVA0G476M8R	T	16.2/15.1
C57	4030016790	S.CER ECJ0EB1C103K	B	17.8/7.7
C61	4030016790	S.CER ECJ0EB1C103K	B	13.9/17.6
C62	4030017460	S.CER ECJ0EB1E102K	B	19.4/2.9
C63	4030016930	S.CER ECJ0EB1A104K	B	12.9/8.6
C64	4030017430	S.CER ECJ0EC1H101J	B	14.8/6.8
C65	4030016930	S.CER ECJ0EB1A104K	B	14.8/5.9
C66	4030016930	S.CER ECJ0EB1A104K	B	19.4/1.2
C67	4030017380	S.CER ECJ0EC1H050B	B	16.7/1.2
C68	4030016930	S.CER ECJ0EB1A104K	B	15.8/1.2
C71	4030016930	S.CER ECJ0EB1A104K	B	33.8/7.1
C72	4030017460	S.CER ECJ0EB1E102K	T	18.7/8.7
C73	4030018910	S.CER C1608 JB 0J 475K-T	T	14.4/4.5
C74	4030016930	S.CER ECJ0EB1A104K	T	16.5/0.81
C81	4030018860	S.CER ECJ0EB0J105K [GEN-04] only	B	34.2/9.6
C82	4030018860	S.CER ECJ0EB0J105K	B	23.2/8.9

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

[MAIN UNIT] (For UT-119S/H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C83	4030017460	S.CER ECJ0EB1E102K	B	22.3/8.9
C84	4030018860	S.CER ECJ0EB0J105K	B	20.5/7
C85	4030016930	S.CER ECJ0EB1A104K	T	19.6/1.2
C86	4030018860	S.CER ECJ0EB0J105K	B	26.3/8.1
C87	4030016950	S.CER ECJ0EB1A473K	B	26.3/6.3
C88	4030016950	S.CER ECJ0EB1A473K	B	28.4/3.9
C89	4030016930	S.CER ECJ0EB1A104K	B	25/6.6
C91	4030016930	S.CER ECJ0EB1A104K	B	30.7/1.5
C92	4030018910	S.CER C1608 JB 0J 475K-T	B	29.5/1.8
C93	4030018860	S.CER ECJ0EB0J105K [GEN-04] only	B	30.3/3.9
C100	4030016790	S.CER ECJ0EB1C103K	T	14.9/8.4
C101	4030018910	S.CER C1608 JB 0J 475K-T	T	14.1/16.7
C102	4030016930	S.CER ECJ0EB1A104K	B	17.3/15
C103	4030016790	S.CER ECJ0EB1C103K	T	11.6/18.2
C104	4030018860	S.CER ECJ0EB0J105K	T	14/8.4
C105	4030016790	S.CER ECJ0EB1C103K	T	14.9/6.8
C106	4030016930	S.CER ECJ0EB1A104K	T	14.4/12.7
C107	4030016790	S.CER ECJ0EB1C103K	T	14/6.8
C108	4030016790	S.CER ECJ0EB1C103K	B	2.5/10.6
C109	4030018860	S.CER ECJ0EB0J105K	T	13.1/18.2
C110	4030016930	S.CER ECJ0EB1A104K	B	3.5/13.8
C111	4030016930	S.CER ECJ0EB1A104K	B	10.4/7.7
C112	4030016930	S.CER ECJ0EB1A104K	B	9.8/1.2
C113	4030016930	S.CER ECJ0EB1A104K	B	5.7/9.9
C114	4030018910	S.CER C1608 JB 0J 475K-T	T	16.6/8.8
C115	4030018910	S.CER C1608 JB 0J 475K-T	T	6.8/18
C116	4030016790	S.CER ECJ0EB1C103K	T	9.2/18.2
C117	4030017400	S.CER ECJ0EC1H220J [GEN-04] only	T	6.5/4.3
C119	4030017420	S.CER ECJ0EC1H470J [GEN-04] only	B	8.5/6.3
C120	4030017420	S.CER ECJ0EC1H470J [GEN-04] only	T	22.6/5.5
C121	4030017420	S.CER ECJ0EC1H470J [GEN-04] only	T	21.7/5.5
J1	6510025230	S.CON AXK640345J2	B	30.3/11.5
EP2	6910016330	S.BEA MMZ1005S 601CT-S	B	30.9/2.7
EP3	6910016330	S.BEA MMZ1005S 601CT-S	T	34.2/13.7
EP4	6910016330	S.BEA MMZ1005S 601CT-S	B	8.6/4.7

[MAIN-A UNIT] (For UT-126H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1180002271	S.REG TK11250CMCL-G	T	28.2/10.9
IC2	1180002590	S.REG XC6204B332MR	B	12/3.5
IC3	1110006700	S.IC TB7100F (TE85L,F)	T	26.9/17.1
IC4	1180002590	S.REG XC6204B332MR	T	22.2/10.9
IC7	1110006230	S.IC NJM2711F-TE1-#ZZZB	T	25.4/2.3
IC8	1110005290	S.IC NJM2115V-TE1-#ZZZB	B	21.6/12.7
IC9	1130007021	S.IC TC7S66FU(TE85L,F)	B	22.8/16.3
IC10	1140013290	S.IC TMS320VC5509AZHH	T	7.2/11.1
IC11	1130006891	S.IC TC7S04FU(TE85R,F)	B	8.2/10.5
IC12	1130007281	S.IC TC7S32FU(TE85R,F)	B	8.2/13.4
IC13	1190002080	S.IC AD7476ARTZ-500RL7	T	17.4/3
IC16	1130012910	S.IC AK4554VTP-E2/P	B	24/3
IC17	1110006230	S.IC NJM2711F-TE1-#ZZZB	B	17.2/5.1
IC20	1130013360	S.IC AT25F2048N-10SU-2.7SL383	B	4.1/2.6
IC22	1130006891	S.IC TC7S04FU(TE85R,F)	T	15.1/10.8
IC23	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	5.3/14.5
IC24	1130013040	S.IC TC7WBD125AFK(T5L,F)	B	14.6/14.5
IC26	1130013050	S.IC HD74LV2GT125AUSE-E	B	10.8/14.5
Q1	1590003550	S.TRA XP4313(TX)	B	19.8/17
Q2	1590003230	S.TRA UNR9113J-(TX)	T	23.8/8
Q3	1530003190	S.TRA 2SC4617 TLQ	B	33.5/4.4
Q5	1590003230	S.TRA UNR9113J-(TX)	B	4.8/7.1
D1	1750001280	S.DIO CUS02(TE85L,Q)	T	24.4/14.4
D2	1790001240	S.DIO MA2S728-(TX)	B	8.3/16.6
D3	1790001240	S.DIO MA2S728-(TX)	B	5.1/17.3
D4	1790001240	S.DIO MA2S728-(TX)	B	6.9/17.5
D5	1790001240	S.DIO MA2S728-(TX)	B	4/9.8
D6	1790001240	S.DIO MA2S728-(TX)	B	3.2/18.2
F11	2020002210	S.CER CFXCE450KCFA-R10	T	29.3/2.1
X1	6050012930	S.XTA CR-886 DSA321SCA 12.288 MHz	B	15/9.1
L1	6200001620	S.COI ELJFC 1R0K-F	T	32.9/10.4
L2	6200012090	S.COI CDRH2D18HP-150NC	T	21.9/17.6
L3	6200007830	S.COI ELJFC 4R7K-F	T	15.6/18.8
L4	6200001620	S.COI ELJFC 1R0K-F	T	21.5/14.3
R1	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/14.6
R2	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	25/16.2
R3	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/13.7
R4	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/9
R5	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.2/9.9
R9	7030005290	S.RES ERJ2GEJ 682 X (6.8K)	T	26/6.4
R10	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	27.8/6.4
R11	7030004980	S.RES ERJ2GEJ 101 X (100)	T	25.1/6.4
R12	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	26.9/4.8
R13	7030004980	S.RES ERJ2GEJ 101 X (100)	T	22.3/2.8
R14	7030008400	S.RES ERJ2GEJ 182 X (1.8K)	T	21.4/1.2
R15	7030004970	S.RES ERJ2GEJ 470 X (47)	T	20.5/1.2
R16	7030005030	S.RES ERJ2GEJ 152 X (1.5K)	T	30.6/4.5
R18	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	15.1/18.3
R19	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	3.5/15.4
R20	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	7.1/15.4
R22	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27/18.3
R23	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27/17.4
R24	7030004980	S.RES ERJ2GEJ 101 X (100)	B	28.7/19.2
R25	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.2/19.2
R26	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.2/18.3
R27	7030007300	S.RES ERJ2GEJ 332 X (3.3K)	T	31.2/14.3
R28	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	T	32.2/14.3
R32	7030009290	S.RES ERJ2GEJ 562 X (5.6K)	B	19.6/7.2
R33	7030005600	S.RES ERJ2GEJ 273 X (27K)	B	19.6/8.9
R34	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	B	17.3/12.1
R35	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	19.8/10.1
R36	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	21.4/10.1
R37	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	24.6/10.1
R38	7030009710	S.RES ERJ2GEJ 203 X (20K)	B	26.3/11.9
R39	7030004980	S.RES ERJ2GEJ 101 X (100)	B	20.1/15.2
R41	7030004970	S.RES ERJ2GEJ 470 X (47)	B	12.8/6.6
R43	7030004970	S.RES ERJ2GEJ 470 X (47)	B	18.2/8.2
R44	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	18.2/7.3
R45	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	17.7/5
R46	7030004980	S.RES ERJ2GEJ 101 X (100)	B	18.5/2.7
R47	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	17.6/2.7
R48	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.6/4.8
R49	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.6/2.5
R50	7030010040	S.RES ERJ2GEJ-JPW	B	14.6/3.9
R51	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	29.5/19.2
R52	7030005310	S.RES ERJ2GEJ 124 X (120K)	T	29.5/18.2
R53	7030011060	S.RES RR0510P-273-D (27K)	T	19.6/15.9
R54	7030008260	S.RES RR0510P-393-D (39K)	T	27.7/14.2
R55	7030010040	S.RES ERJ2GEJ-JPW	B	12.8/5.7
R56	7030005170	S.RES ERJ2GEJ 474 X (470K)	T	28.7/14.2
R62	7030007250	S.RES ERJ2GEJ 220 X (22)	T	15.8/6.8
R63	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	18.3/0.81
R64	7030005210	S.RES ERJ2GEJ 822 X (8.2K)	T	19.6/2.8
R69	7030007290	S.RES ERJ2GEJ 222 X (2.2K)	B	20.5/8.9
R70	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/7.2
R71	7030004980	S.RES ERJ2GEJ 101 X (100)	B	29.3/3.9

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

S.=Surface mount

[MAIN-A UNIT] (For UT-126H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
R72	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	28.4/2.3
R73	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	34.2/1.6
R74	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	31.2/3.9
R75	7030008300	S.RES ERJ2GEJ 184 X (180K)	B	33.8/5.9
R81	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	9.9/4.3
R82	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	8.3/4.3
R83	7030005040	S.RES ERJ2GEJ 472 X (4.7K)	T	12.4/4.3
R84	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	2.3/9.8
R85	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	15.8/5.6
R86	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	22/6.5
R87	7030005240	S.RES ERJ2GEJ 473 X (47K)	T	23.5/5.2
R91	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	10.5/8.9
R92	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	11.4/8.9
R93	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/1.3
R94	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/2.9
R95	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	8.6/3.8
R96	7030005090	S.RES ERJ2GEJ 104 X (100K)	B	10.5/10.7
R97	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	11.4/10.7
R98	7030005050	S.RES ERJ2GEJ 103 X (10K)	B	12.3/16.6
R99	7030004980	S.RES ERJ2GEJ 101 X (100)	T	23.2/1.2
R100	7030010040	S.RES ERJ2GEJ-JPW	T	5.3/17.9
R101	7030005120	S.RES ERJ2GEJ 102 X (1K)	T	9.5/17.9
R102	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	1.2/6.7
R103	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	1.2/7.6
R104	7030005240	S.RES ERJ2GEJ 473 X (47K)	B	14.4/11.6
R106	7030010040	S.RES ERJ2GEJ-JPW	T	18.4/6.5
R107	7030010040	S.RES ERJ2GEJ-JPW	T	17.6/5.2
R108	7030005120	S.RES ERJ2GEJ 102 X (1K)	B	5.4/8.7
R109	7030010040	S.RES ERJ2GEJ-JPW	B	0.81/12.7
R110	7030004980	S.RES ERJ2GEJ 101 X (100)	B	3/11.6
C1	4030018560	S.CER C2012 JB 1A 475K-T	T	32.9/12.6
C2	4030016930	S.CER ECJ0EB1A104K	T	25.7/11.8
C3	4030016930	S.CER ECJ0EB1A104K	T	30.7/10.4
C4	4030016930	S.CER ECJ0EB1A104K	T	25.7/10.2
C5	4550007930	S.TAN TEESVJ 1A 475M8R	T	24.6/10.5
C6	4030018860	S.CER ECJ0EB0J105K	T	26.2/8.4
C7	4030016930	S.CER ECJ0EB1A104K	T	25.3/8.4
C9	4030016930	S.CER ECJ0EB1A104K	T	18.4/9.9
C10	4550007730	S.TAN TEESVJ 0J 106M8R	T	19.7/10.9
C11	4550007930	S.TAN TEESVJ 1A 475M8R	B	12/1.2
C12	4030016930	S.CER ECJ0EB1A104K	B	14.1/1.5
C13	4030016930	S.CER ECJ0EB1A104K	B	9.8/4.1
C14	4550007730	S.TAN TEESVJ 0J 106M8R	B	10.6/6.3
C21	4030016930	S.CER ECJ0EB1A104K	T	30.6/5.4
C22	4030018910	S.CER C1608 JB 0J 475K-T	T	25.2/5
C23	4030016930	S.CER ECJ0EB1A104K	T	23.9/6.4
C24	4030016930	S.CER ECJ0EB1A104K	T	26.9/6.4
C25	4030016930	S.CER ECJ0EB1A104K	T	27.8/4.8
C26	4030016930	S.CER ECJ0EB1A104K	T	21.4/2.8
C27	4030017590	S.CER ECJ0EC1H070C	T	22.3/1.2
C28	4030017730	S.CER ECJ0EB1E471K	T	20.5/2.8
C31	4030016930	S.CER ECJ0EB1A104K	B	18.2/15
C32	4030017460	S.CER ECJ0EB1E102K	B	17.9/17.2
C33	4030016790	S.CER ECJ0EB1C103K	B	17.3/13.7
C34	4030016930	S.CER ECJ0EB1A104K	B	18.2/10.9
C35	4030017460	S.CER ECJ0EB1E102K	B	23/10.1
C36	4030017450	S.CER ECJ0EB1E271K	B	24.8/11
C37	4030017750	S.CER ECJ0EB1E122K	B	26.3/12.8
C40	4030017420	S.CER ECJ0EC1H470J	B	27/19.2
C41	4030017420	S.CER ECJ0EC1H470J	B	25.4/18.3
C42	4030017420	S.CER ECJ0EC1H470J	B	24.9/17.4
C43	4030017420	S.CER ECJ0EC1H470J	T	31.2/18.2
C44	4030017420	S.CER ECJ0EC1H470J	B	31.6/19.2
C45	4030017420	S.CER ECJ0EC1H470J	B	25.9/16.2
C46	4030017420	S.CER ECJ0EC1H470J	B	24.1/8.9
C47	4030017420	S.CER ECJ0EC1H470J	B	25.1/8.5
C48	4030017420	S.CER ECJ0EC1H470J	T	33.2/14.3
C51	4550007730	S.TAN TEESVJ 0J 106M8R	T	24.5/17.5
C52	4030016930	S.CER ECJ0EB1A104K	T	26.2/14.2
C53	4030017770	S.CER ECJ0EB1E332K	T	31.2/19.2
C54	4550007720	S.TAN TEESVP 0G 476M8R	T	18.2/16
C55	4030016930	S.CER ECJ0EB1A104K	T	18.5/18.5
C56	4550007720	S.TAN TEESVP 0G 476M8R	T	16.2/16
C57	4030016790	S.CER ECJ0EB1C103K	B	18.2/9.1
C61	4030016790	S.CER ECJ0EB1C103K	B	10.7/17.6
C62	4030017460	S.CER ECJ0EB1E102K	B	19.4/4.3
C63	4030016930	S.CER ECJ0EB1A104K	B	12.8/8.4
C64	4030017620	S.CER ECJ0EC1H100C	B	14.6/6.6
C65	4030016930	S.CER ECJ0EB1A104K	B	14.6/5.7
C66	4030016930	S.CER ECJ0EB1A104K	B	19.4/2.7
C67	4030017380	S.CER ECJ0EC1H050B	B	16.7/2.7
C68	4030016930	S.CER ECJ0EB1A104K	B	15.8/2.7
C71	4030016930	S.CER ECJ0EB1A104K	B	33.8/7.1
C72	4030017460	S.CER ECJ0EB1E102K	T	18.7/8.7
C73	4030018910	S.CER C1608 JB 0J 475K-T	T	14.5/4.5
C74	4030016930	S.CER ECJ0EB1A104K	T	16.5/0.81
C81	4030018860	S.CER ECJ0EB0J105K	B	34.2/9.6
C82	4030018860	S.CER ECJ0EB0J105K	B	23.2/8.9
C83	4030017460	S.CER ECJ0EB1E102K	B	22.3/8.9
C84	4030018860	S.CER ECJ0EB0J105K	B	20.5/7.2
C85	4030016930	S.CER ECJ0EB1A104K	T	19.6/1.2
C86	4030018860	S.CER ECJ0EB0J105K	B	26.3/8.1
C87	4030016950	S.CER ECJ0EB1A473K	B	26.3/6.3
C88	4030016950	S.CER ECJ0EB1A473K	B	28.4/3.9
C89	4030016930	S.CER ECJ0EB1A104K	B	25/6.6
C91	4030016930	S.CER ECJ0EB1A104K	B	30.7/1.5
C92	4030018910	S.CER C1608 JB 0J 475K-T	B	29.5/1.8

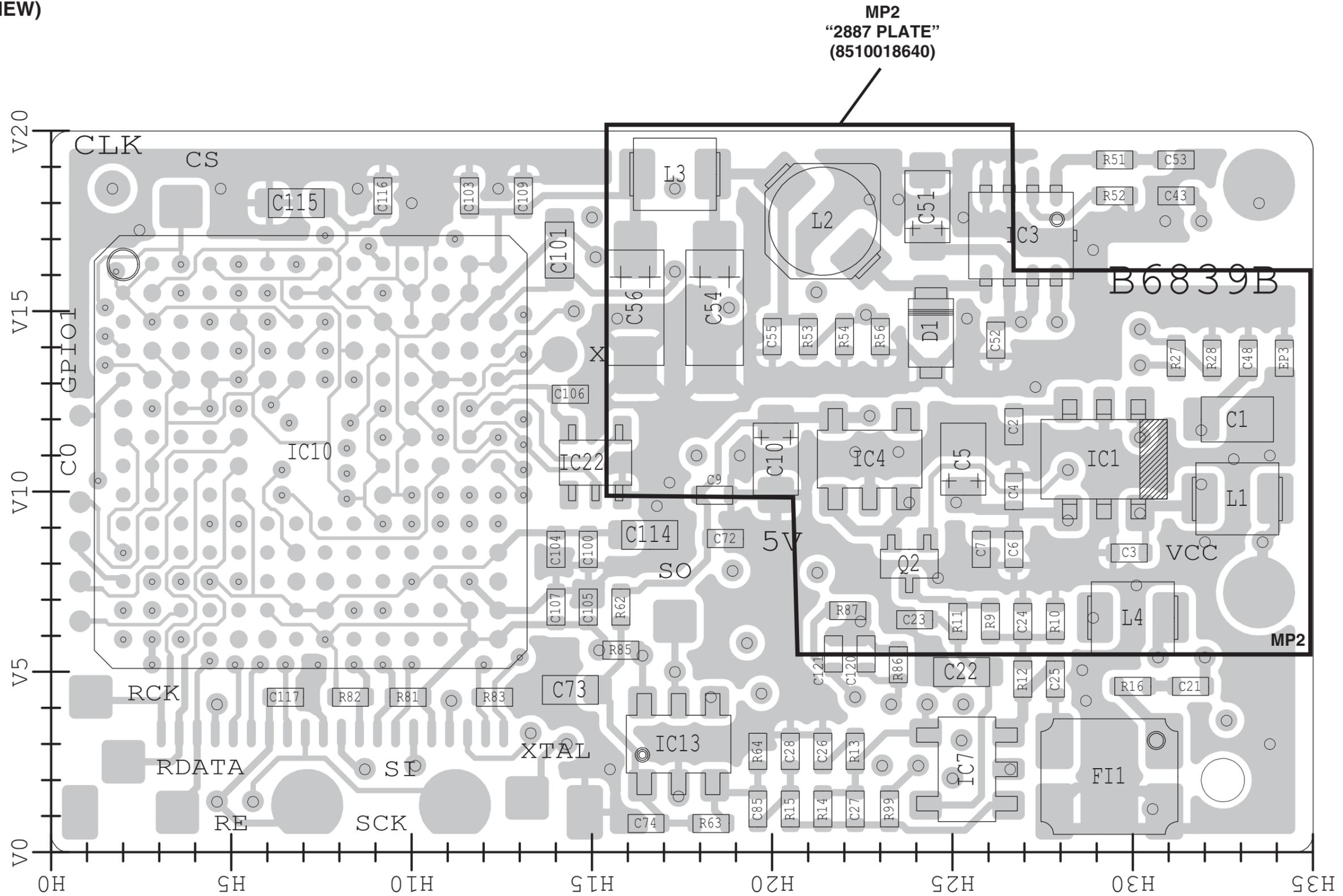
[MAIN-A UNIT] (For UT-126H)

REF NO.	PARTS NO.	DESCRIPTION	M.	H/V LOCATION
C93	4030018860	S.CER ECJ0EB0J105K	B	30.3/3.9
C99	4030018860	S.CER ECJ0EB0J105K	B	8.7/8.4
C100	4030016790	S.CER ECJ0EB1C103K	T	14.9/8.4
C101	4030018910	S.CER C1608 JB 0J 475K-T	T	14.1/16.4
C102	4030016930	S.CER ECJ0EB1A104K	B	17.3/15.3
C103	4030016790	S.CER ECJ0EB1C103K	T	12.2/18.2
C104	4030018860	S.CER ECJ0EB0J105K	T	14/8.4
C105	4030016790	S.CER ECJ0EB1C103K	T	14.9/6.8
C106	4030016930	S.CER ECJ0EB1A104K	T	14.4/12.7
C107	4030016790	S.CER ECJ0EB1C103K	T	14/6.8
C108	4030016790	S.CER ECJ0EB1C103K	B	7.8/8.4
C109	4030018860	S.CER ECJ0EB0J105K	T	13.1/18.2
C110	4030016930	S.CER ECJ0EB1A104K	B	3.5/13.8
C111	4030016930	S.CER ECJ0EB1A104K	B	10.4/7.7
C112	4030016930	S.CER ECJ0EB1A104K	B	9.8/1.2
C113	4030016930	S.CER ECJ0EB1A104K	B	5.7/9.9
C114	4030018910	S.CER C1608 JB 0J 475K-T	T	16.6/8.8
C115	4030018910	S.CER C1608 JB 0J 475K-T	T	7.4/18
C116	4030016790	S.CER ECJ0EB1C103K	T	4.1/18.3
C117	4030017400	S.CER ECJ0EC1H220J	T	6.5/4.3
C119	4030017420	S.CER ECJ0EC1H470J	B	8.5/6.3
C120	4030017420	S.CER ECJ0EC1H470J	T	21.7/5.3
C121	4030017420	S.CER ECJ0EC1H470J	T	22.6/5.3
C122	4030016930	S.CER ECJ0EB1A104K	B	16/11.6
J1	6510025230	S.CON AXK640345J2	B	30.3/11.5
EP2	6910016330	S.BEA MMZ1005S 601CT-S	B	30.9/2.7
EP3	6910016330	S.BEA MMZ1005S 601CT-S	T	34.2/14.3
EP4	6910016330	S.BEA MMZ1005S 601CT-S	B	8.6/4.7
EP5	6910016330	S.BEA MMZ1005S 601CT-S	B	26.8/16.2

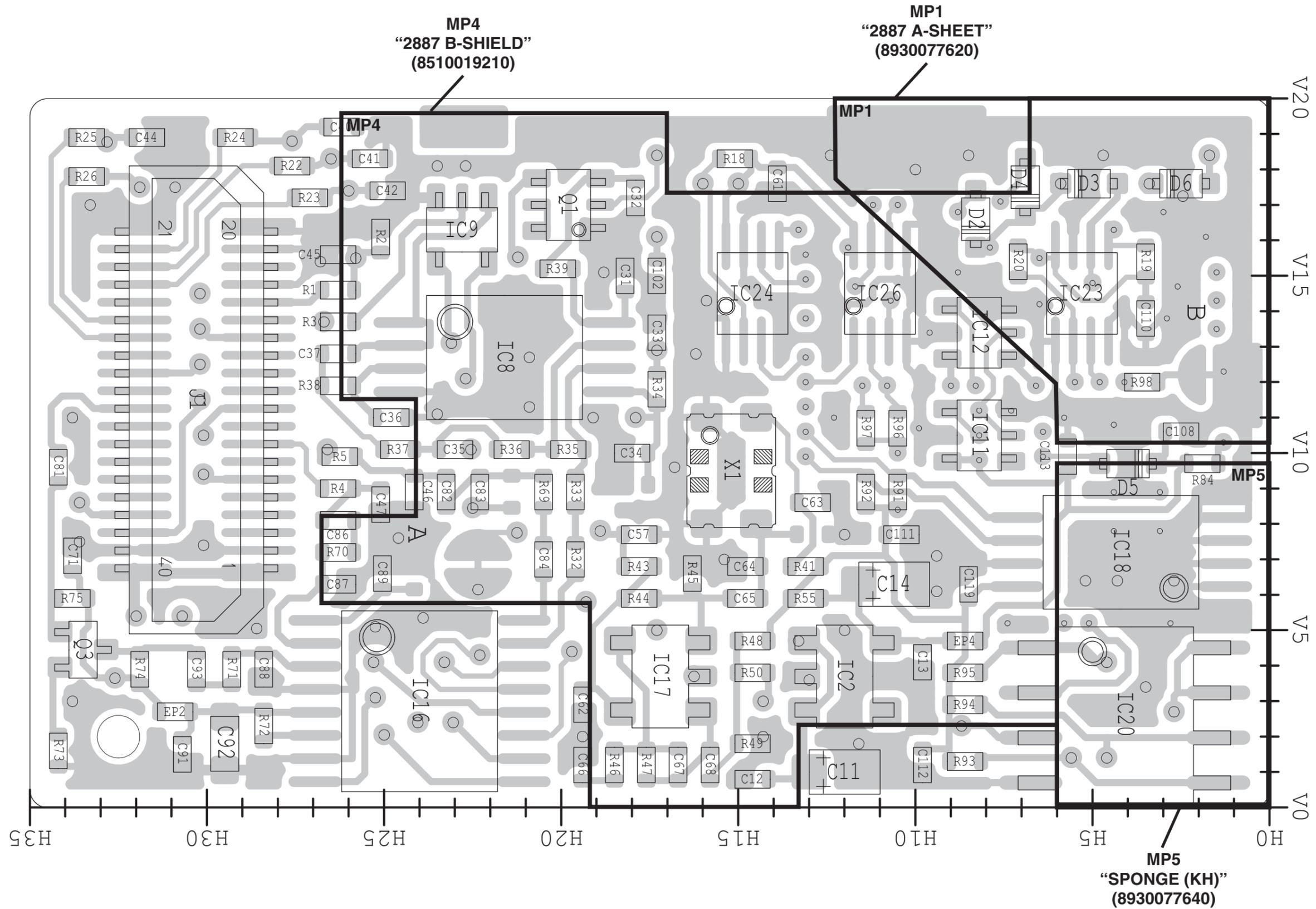
M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

# BOARD LAYOUTS

- MAIN UNIT (For UT-119S/H)  
(TOP VIEW)



• MAIN UNIT (For UT-119S/H)  
(BOTTOM VIEW)

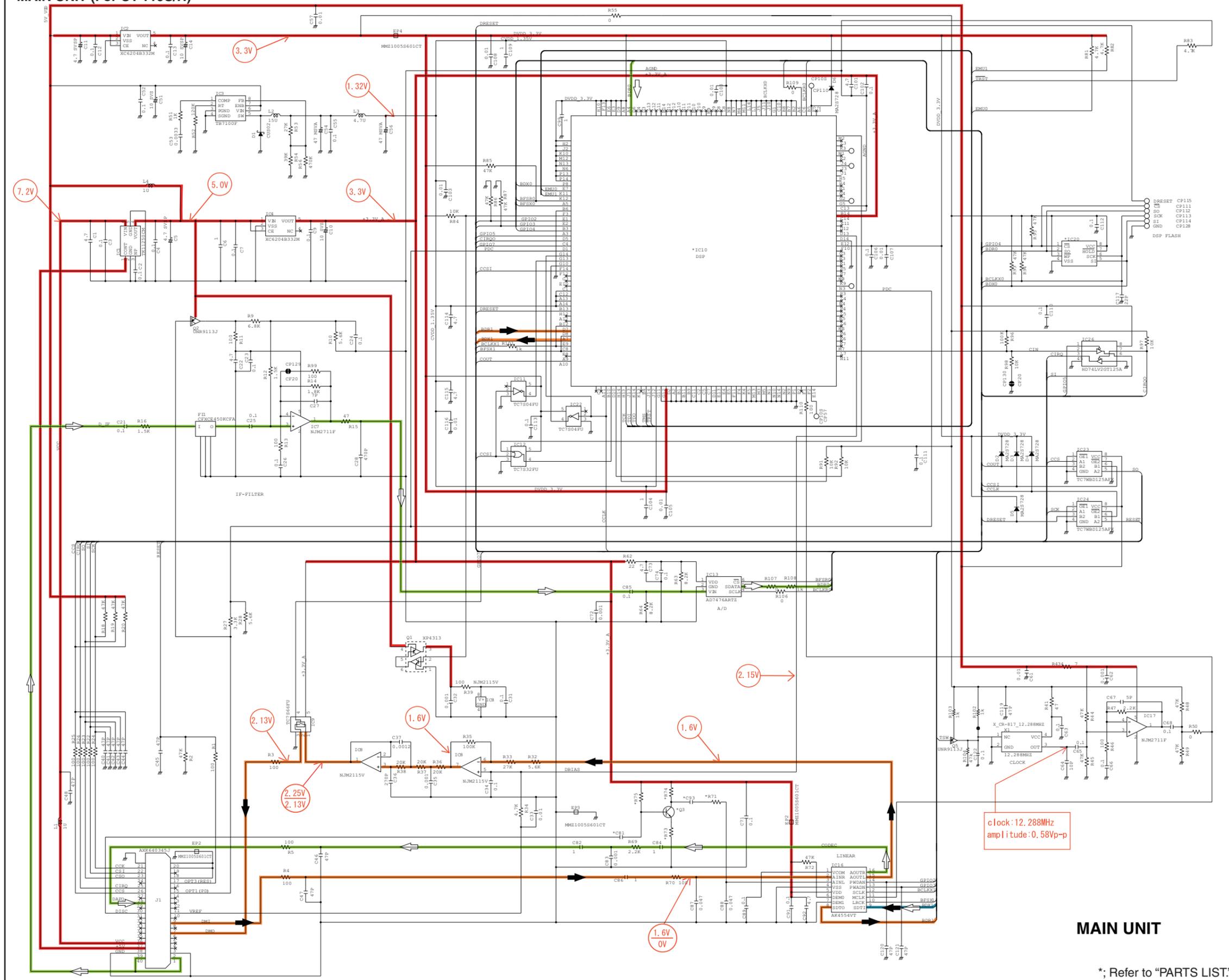






# VOLTAGE DIAGRAM

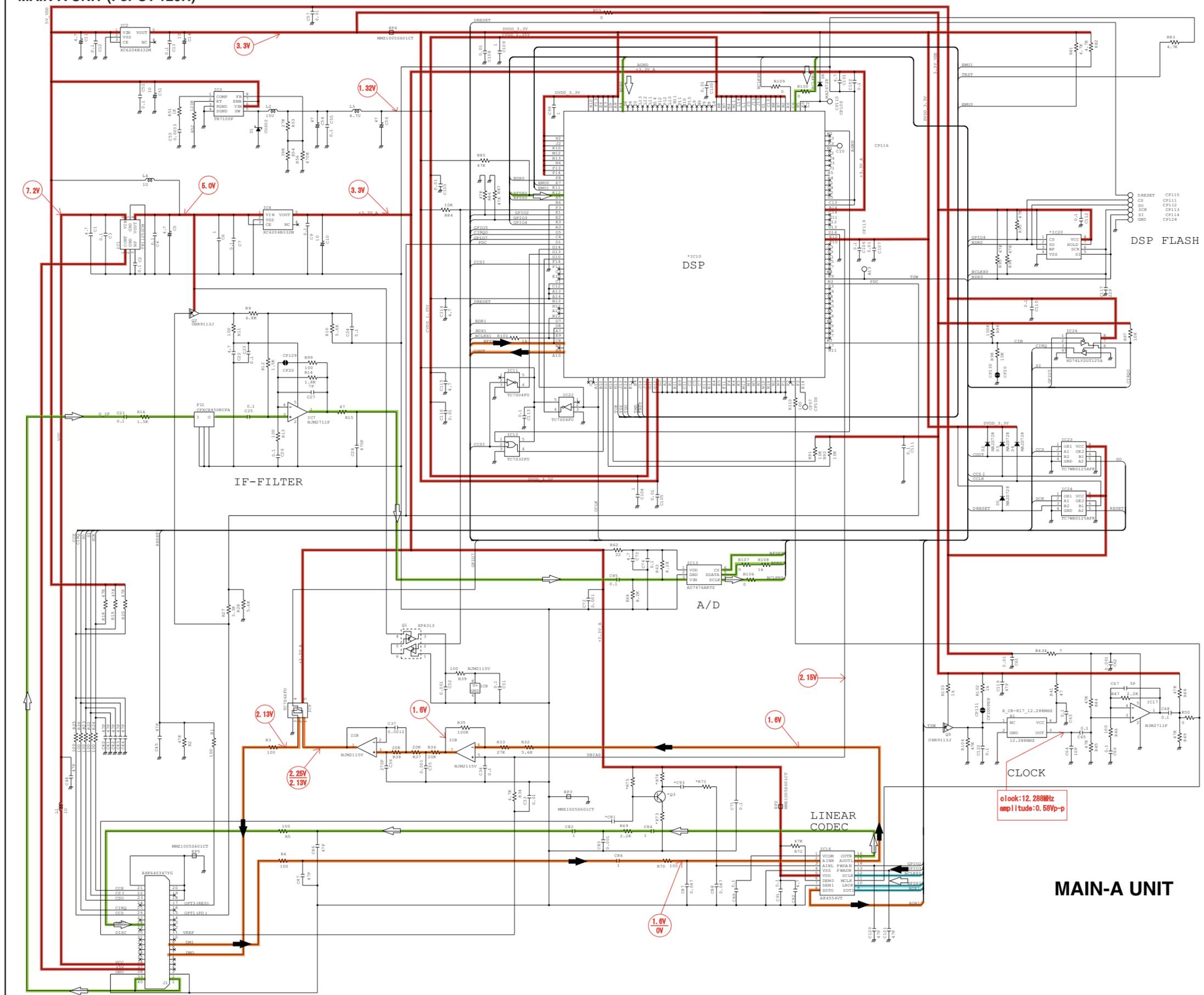
## • MAIN UNIT (For UT-119S/H)



MAIN UNIT

\*; Refer to "PARTS LIST."

• MAIN-A UNIT (For UT-126H)



MAIN-A UNIT

Jul. 2008

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# SERVICE MANUAL ADDENDUM

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## UT-119S UT-119H UT-126H

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# PARTS LIST

## [MAIN-A UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1180002271	S.REG TK11250CMCL-G	T	28.2/10.9
IC2	1180002590	S.REG XC6204B332MR	B	12/3.5
IC3	1110006700	S.IC TB7100F (TE85L,F)	T	26.9/17.1
IC4	1180002590	S.REG XC6204B332MR	T	22.2/10.9
IC7	1110006230	S.IC NJM2711F-TE1-#ZZZB	T	25.4/2.3
IC8	1110005290	S.IC NJM2115V-TE1-#ZZZB	B	21.6/12.7
IC9	1130007021	S.IC TC7S66FU (TE85L,F)	B	22.8/16.3
IC10	1140013290	S.IC TMS320VC5509AZHH	T	7.2/11.1
IC11	1130006891	S.IC TC7S04FU (TE85R,F)	B	8.2/10.5
IC12	1130007281	S.IC TC7S32FU (TE85R,F)	B	8.2/13.4
IC13	1190002080	S.IC AD7476ARTZ-500RL7	T	17.4/3
IC16	1130012910	S.IC AK4554VTP-E2/P	B	24/3
IC17	1110006230	S.IC NJM2711F-TE1-#ZZZB	B	17.2/5.1
IC20	1130013360	S.IC AT25F2048N-10SU-2.7SL383	B	4.1/2.6
IC22	1130006891	S.IC TC7S04FU (TE85R,F)	T	15.1/10.8
IC23	1130013040	S.IC TC7WBD125AFK (T5L,F)	B	5.3/14.5
IC24	1130013040	S.IC TC7WBD125AFK (T5L,F)	B	14.6/14.5
IC26	1130013050	S.IC HD74LV2GT125AUSE-E	B	10.8/14.5
Q1	1590003550	S.TR XP4313 (TX)	B	19.8/17
Q2	1590003230	S.TR UNR9113J-(TX)	T	23.8/8
Q3	1530003190	S.TR 2SC4617 TLQ	B	33.5/4.4
Q5	1590003230	S.TR UNR9113J-(TX)	B	4.8/7.1
D1	1750001280	S.DIO CUS02 (TE85L,Q)	T	24.4/14.4
D2	1790001240	S.DIO MA2S728-(TX)	B	8.3/16.6
D3	1790001240	S.DIO MA2S728-(TX)	B	5.1/17.3
D4	1790001240	S.DIO MA2S728-(TX)	B	6.9/17.5
D5	1790001240	S.DIO MA2S728-(TX)	B	4/9.8
D6	1790001240	S.DIO MA2S728-(TX)	B	3.2/18.2
F11	2020002210	S.CER CFXCE450KCFA-R1	T	29.3/2.1
X1	6050012350	S.XTL CR-817 (12.288 MHz)	B	15/9.1
L1	6200001620	S.COL ELJFC 1R0K-F	T	32.9/10.4
L2	6200012090	S.COL CDRH2D18HP-150NC	T	21.9/17.6
L3	6200007830	S.COL ELJFC 4R7K-F	T	15.6/18.8
L4	6200001620	S.COL ELJFC 1R0K-F	T	21.5/14.3
R1	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/14.6
R2	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	25/16.2
R3	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/13.7
R4	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/9
R5	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.2/9.9
R9	7030005290	S.RES ERJ2GEJ 682 X (6.8 k)	T	26/6.4
R10	7030009290	S.RES ERJ2GEJ 562 X (5.6 k)	T	27.8/6.4
R11	7030004980	S.RES ERJ2GEJ 101 X (100)	T	25.1/6.4
R12	7030005030	S.RES ERJ2GEJ 152 X (1.5 k)	T	26.9/4.8
R13	7030004980	S.RES ERJ2GEJ 101 X (100)	T	22.3/2.8
R14	7030008400	S.RES ERJ2GEJ 182 X (1.8 k)	T	21.4/1.2
R15	7030004970	S.RES ERJ2GEJ 470 X (47 k)	T	20.5/1.2
R16	7030005030	S.RES ERJ2GEJ 152 X (1.5 k)	T	30.6/4.5
R18	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	15.1/18.3
R19	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	3.5/15.4
R20	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	7.1/15.4
R22	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27/18.3
R23	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27/17.4
R24	7030004980	S.RES ERJ2GEJ 101 X (100)	B	28.7/19.2
R25	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.2/19.2
R26	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.2/18.3
R27	7030007300	S.RES ERJ2GEJ 332 X (3.3 k)	T	31.2/14.3
R28	7030009290	S.RES ERJ2GEJ 562 X (5.6 k)	T	32.2/14.3
R32	7030009290	S.RES ERJ2GEJ 562 X (5.6 k)	B	19.6/7.2
R33	7030005600	S.RES ERJ2GEJ 273 X (27 k)	B	19.6/8.9
R34	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	B	17.3/12.1
R35	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	19.8/10.1
R36	7030009710	S.RES ERJ2GEJ 203 X (20 k)	B	21.4/10.1
R37	7030009710	S.RES ERJ2GEJ 203 X (20 k)	B	24.6/10.1
R38	7030009710	S.RES ERJ2GEJ 203 X (20 k)	B	26.3/11.9
R39	7030004980	S.RES ERJ2GEJ 101 X (100)	B	20.1/15.2
R41	7030004970	S.RES ERJ2GEJ 470 X (47 k)	B	12.8/6.6
R43	7030004970	S.RES ERJ2GEJ 470 X (47 k)	B	18.2/8.2
R44	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	18.2/7.3
R45	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	17.7/5
R46	7030004980	S.RES ERJ2GEJ 101 X (100)	B	18.5/2.7
R47	7030007290	S.RES ERJ2GEJ 222 X (2.2 k)	B	17.6/2.7
R48	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	14.6/4.8
R49	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	14.6/2.5
R50	7030010040	S.RES ERJ2GEJ-JPW	B	14.6/3.9
R51	7030005120	S.RES ERJ2GEJ 102 X (1 k)	T	29.5/19.2
R52	7030005310	S.RES ERJ2GEJ 124 X (120 k)	T	29.5/18.2
R53	7030011060	S.RES RR0510P-273-D (27 k)	T	19.6/15.9
R54	7030008260	S.RES RR0510P-393-D (39 k)	T	27.7/14.2
R55	7030010040	S.RES ERJ2GEJ-JPW	B	12.8/5.7
R56	7030005170	S.RES ERJ2GEJ 474 X (470 k)	T	28.7/14.2
R62	7030007250	S.RES ERJ2GEJ 220 X (22 k)	T	15.8/6.8
R63	7030005210	S.RES ERJ2GEJ 822 X (8.2 k)	T	18.3/8
R64	7030005210	S.RES ERJ2GEJ 822 X (8.2 k)	T	19.6/2.8
R69	7030007290	S.RES ERJ2GEJ 222 X (2.2 k)	B	20.5/8.9
R70	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/7.2
R71	7030004980	S.RES ERJ2GEJ 101 X (100)	B	29.3/3.9

## [MAIN-A UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
R72	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	28.4/2.3
R73	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	34.2/1.6
R74	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	31.2/3.9
R75	7030008300	S.RES ERJ2GEJ 184 X (180 k)	B	33.8/5.9
R81	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	T	9.9/4.3
R82	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	T	8.3/4.3
R83	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	T	12.4/4.3
R84	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	2.3/9.8
R85	7030005240	S.RES ERJ2GEJ 473 X (47 k)	T	15.8/5.6
R86	7030005240	S.RES ERJ2GEJ 473 X (47 k)	T	22/6.5
R87	7030005240	S.RES ERJ2GEJ 473 X (47 k)	T	23.5/5.2
R91	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	10.5/8.9
R92	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	11.4/8.9
R93	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	8.6/1.3
R94	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	8.6/2.9
R95	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	8.6/3.8
R96	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	10.5/10.7
R97	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	11.4/10.7
R98	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	12.3/16.6
R99	7030004980	S.RES ERJ2GEJ 101 X (100)	T	23.2/1.2
R100	7030010040	S.RES ERJ2GEJ-JPW	T	5.3/17.9
R101	7030005120	S.RES ERJ2GEJ 102 X (1 k)	T	9.5/17.9
R102	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	1.2/7.6
R103	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	1.2/7.6
R104	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	14.4/11.6
R106	7030010040	S.RES ERJ2GEJ-JPW	T	18.4/6.5
R107	7030010040	S.RES ERJ2GEJ-JPW	T	17.6/5.2
R108	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	5.4/7.8
R109	7030010040	S.RES ERJ2GEJ-JPW	B	8/12.7
R110	7030004980	S.RES ERJ2GEJ 101 X (100)	B	3/11.6
C1	4030018560	S.CER C2012 JB 1A 475K-T	T	32.9/12.6
C2	4030016930	S.CER ECJ0EB1A104K	T	25.7/11.8
C3	4030016930	S.CER ECJ0EB1A104K	T	30.7/10.4
C4	4030016930	S.CER ECJ0EB1A104K	T	25.7/10.2
C5	4550007930	S.TAN TEESVJ 1A 475M8R	T	24.6/10.5
C6	4030018860	S.CER ECJ0EB0J105K	T	26.2/8.4
C7	4030016930	S.CER ECJ0EB1A104K	T	25.3/8.4
C9	4030016930	S.CER ECJ0EB1A104K	T	18.4/9.9
C10	4550007730	S.TAN TEESVJ 0J 106M8R	T	19.7/10.9
C11	4550007930	S.TAN TEESVJ 1A 475M8R	B	12/1.2
C12	4030016930	S.CER ECJ0EB1A104K	B	14.1/1.5
C13	4030016930	S.CER ECJ0EB1A104K	B	9.8/4.1
C14	4550007730	S.TAN TEESVJ 0J 106M8R	B	10.6/6.3
C21	4030016930	S.CER ECJ0EB1A104K	T	30.6/5.4
C22	4030018910	S.CER C1608 JB 0J 475K-T	T	25.2/5
C23	4030016930	S.CER ECJ0EB1A104K	T	23.9/6.4
C24	4030016930	S.CER ECJ0EB1A104K	T	26.9/6.4
C25	4030016930	S.CER ECJ0EB1A104K	T	27.8/4.8
C26	4030016930	S.CER ECJ0EB1A104K	T	21.4/2.8
C27	4030017590	S.CER ECJ0EC1H070C	T	22.3/1.2
C28	4030017730	S.CER ECJ0EB1E471K	T	20.5/2.8
C31	4030016930	S.CER ECJ0EB1A104K	B	18.2/15
C32	4030017460	S.CER ECJ0EB1E102K	B	17.9/17.2
C33	4030016790	S.CER ECJ0EB1C103K	B	17.3/13.7
C34	4030016930	S.CER ECJ0EB1A104K	B	18.2/10.9
C35	4030017460	S.CER ECJ0EB1E102K	B	23/10.1
C36	4030017450	S.CER ECJ0EB1E271K	B	24.8/11
C37	4030017750	S.CER ECJ0EB1E122K	B	26.3/12.8
C40	4030017420	S.CER ECJ0EC1H470J	B	27/19.2
C41	4030017420	S.CER ECJ0EC1H470J	B	25.4/18.3
C42	4030017420	S.CER ECJ0EC1H470J	B	24.9/17.4
C43	4030017420	S.CER ECJ0EC1H470J	T	31.2/18.2
C44	4030017420	S.CER ECJ0EC1H470J	B	31.6/19.2
C45	4030017420	S.CER ECJ0EC1H470J	B	25.9/16.2
C46	4030017420	S.CER ECJ0EC1H470J	B	24.1/8.9
C47	4030017420	S.CER ECJ0EC1H470J	B	25.1/8.5
C48	4030017420	S.CER ECJ0EC1H470J	T	33.2/14.3
C51	4550007730	S.TAN TEESVJ 0J 106M8R	T	24.5/17.5
C52	4030016930	S.CER ECJ0EB1A104K	T	26.2/14.2
C53	4030017770	S.CER ECJ0EB1E332K	T	31.2/19.2
C54	4550007720	S.TAN TEESVP 0G 476M8R	T	18.2/16
C55	4030016930	S.CER ECJ0EB1A104K	T	18.5/18.5
C56	4550007720	S.TAN TEESVP 0G 476M8R	T	16.2/16
C57	4030016790	S.CER ECJ0EB1C103K	B	18.2/9.1
C61	4030016790	S.CER ECJ0EB1C103K	B	10.7/17.6
C62	4030017460	S.CER ECJ0EB1E102K	B	19.4/4.3
C63	4030016930	S.CER ECJ0EB1A104K	B	12.8/8.4
C64	4030017620	S.CER ECJ0EC1H100C	B	14.6/6.6
C65	4030016930	S.CER ECJ0EB1A104K	B	14.6/5.7
C66	4030016930	S.CER ECJ0EB1A104K	B	19.4/2.7
C67	4030017380	S.CER ECJ0EC1H050B	B	16.7/2.7
C68	4030016930	S.CER ECJ0EB1A104K	B	15.8/2.7
C71	4030016930	S.CER ECJ0EB1A104K	B	33.8/7.1
C72	4030017460	S.CER ECJ0EB1E102K	T	18.7/8.7
C73	4030018910	S.CER C1608 JB 0J 475K-T	T	14.5/4.5
C74	4030016930	S.CER ECJ0EB1A104K	T	16.5/8
C81	4030018860	S.CER ECJ0EB0J105K	B	34.2/9.6
C82	4030018860	S.CER ECJ0EB0J105K	B	23.2/8.9
C83	4030017460	S.CER ECJ0EB1E102K	B	22.3/8.9
C84	4030018860	S.CER ECJ0EB0J105K	B	20.5/7.2
C85	4030016930	S.CER ECJ0EB1A104K	T	19.6/1.2
C86	4030018860	S.CER ECJ0EB0J105K	B	26.3/8.1
C87	4030016950	S.CER ECJ0EB1A473K	B	26.3/6.3
C88	4030016950	S.CER ECJ0EB1A473K	B	28.4/3.9
C89	4030016930	S.CER ECJ0EB1A104K	B	25/6.6
C91	4030016930	S.CER ECJ0EB1A104K	B	30.7/1.5

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

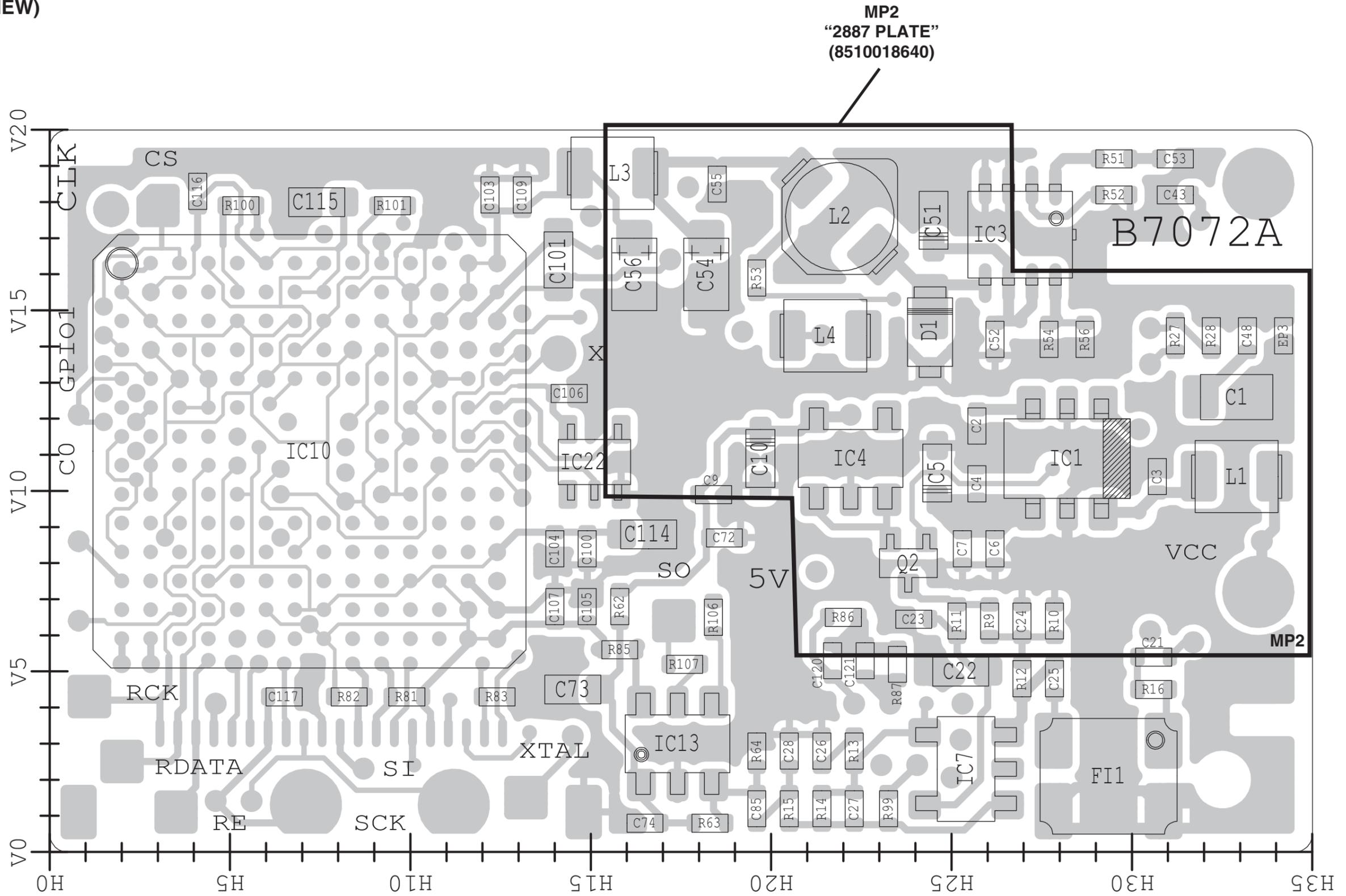
**[MAIN-A UNIT]**

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
C92	4030018910	S.CER C1608 JB 0J 475K-T	B	29.5/1.8
C93	4030018860	S.CER ECJ0EB0J105K	B	30.3/3.9
C99	4030018860	S.CER ECJ0EB0J105K	B	8.7/8.4
C100	4030016790	S.CER ECJ0EB1C103K	T	14.9/8.4
C101	4030018910	S.CER C1608 JB 0J 475K-T	T	14.1/16.4
C102	4030016930	S.CER ECJ0EB1A104K	B	17.3/15.3
C103	4030016790	S.CER ECJ0EB1C103K	T	12.2/18.2
C104	4030018860	S.CER ECJ0EB0J105K	T	14/8.4
C105	4030016790	S.CER ECJ0EB1C103K	T	14.9/6.8
C106	4030016930	S.CER ECJ0EB1A104K	T	14.4/12.7
C107	4030016790	S.CER ECJ0EB1C103K	T	14/6.8
C108	4030016790	S.CER ECJ0EB1C103K	B	7.8/8.4
C109	4030018860	S.CER ECJ0EB0J105K	T	13.1/18.2
C110	4030016930	S.CER ECJ0EB1A104K	B	3.5/13.8
C111	4030016930	S.CER ECJ0EB1A104K	B	10.4/7.7
C112	4030016930	S.CER ECJ0EB1A104K	B	9.8/1.2
C113	4030016930	S.CER ECJ0EB1A104K	B	5.7/9.9
C114	4030018910	S.CER C1608 JB 0J 475K-T	T	16.6/8.8
C115	4030018910	S.CER C1608 JB 0J 475K-T	T	7.4/18
C116	4030016790	S.CER ECJ0EB1C103K	T	4.1/18.3
C117	4030017400	S.CER ECJ0EC1H220J	T	6.5/4.3
C119	4030017420	S.CER ECJ0EC1H470J	B	8.5/6.3
C120	4030017420	S.CER ECJ0EC1H470J	T	21.7/5.3
C121	4030017420	S.CER ECJ0EC1H470J	T	22.6/5.3
C122	4030016930	S.CER ECJ0EB1A104K	B	16/11.6
J1	6510025230	S.CNR AXK640345J	B	30.3/11.5
EP2	6910016330	S.BEA MMZ1005S 601CT-S	B	30.9/2.7
EP3	6910016330	S.BEA MMZ1005S 601CT-S	T	34.2/14.3
EP4	6910016330	S.BEA MMZ1005S 601CT-S	B	8.6/4.7
EP5	6910016330	S.BEA MMZ1005S 601CT-S	B	26.8/16.2

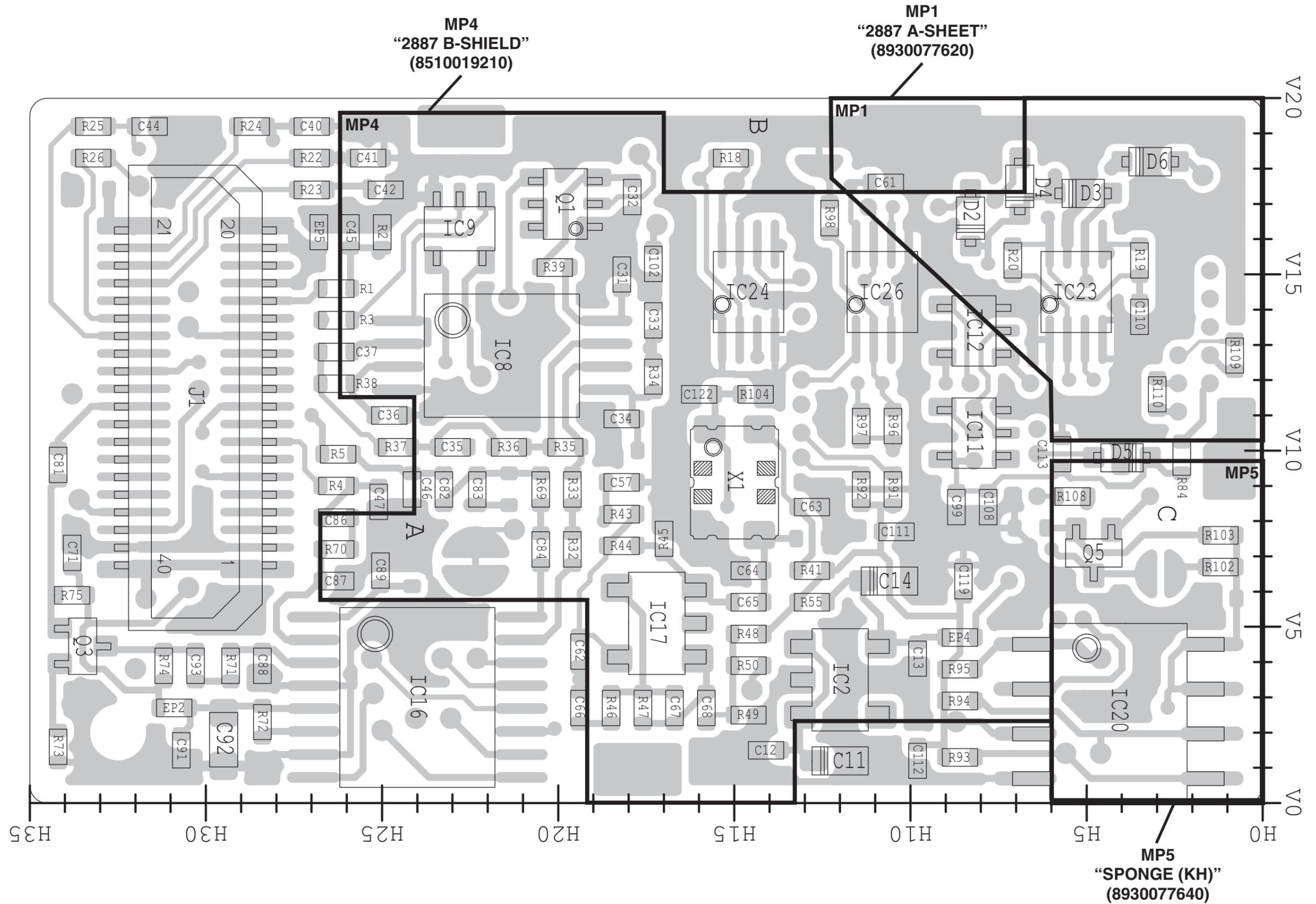
M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

# BOARD LAYOUTS

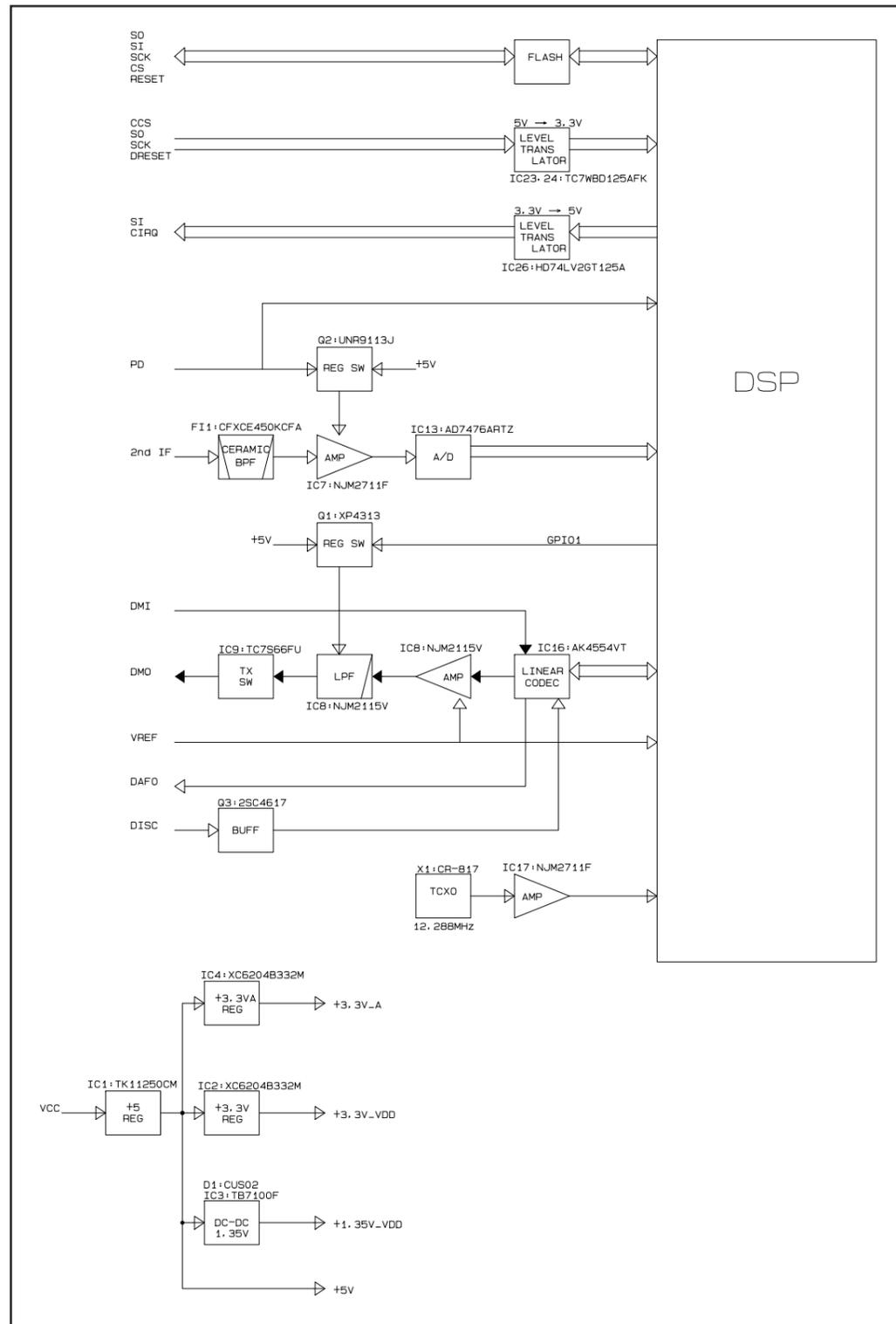
## • MAIN-A UNIT (TOP VIEW)



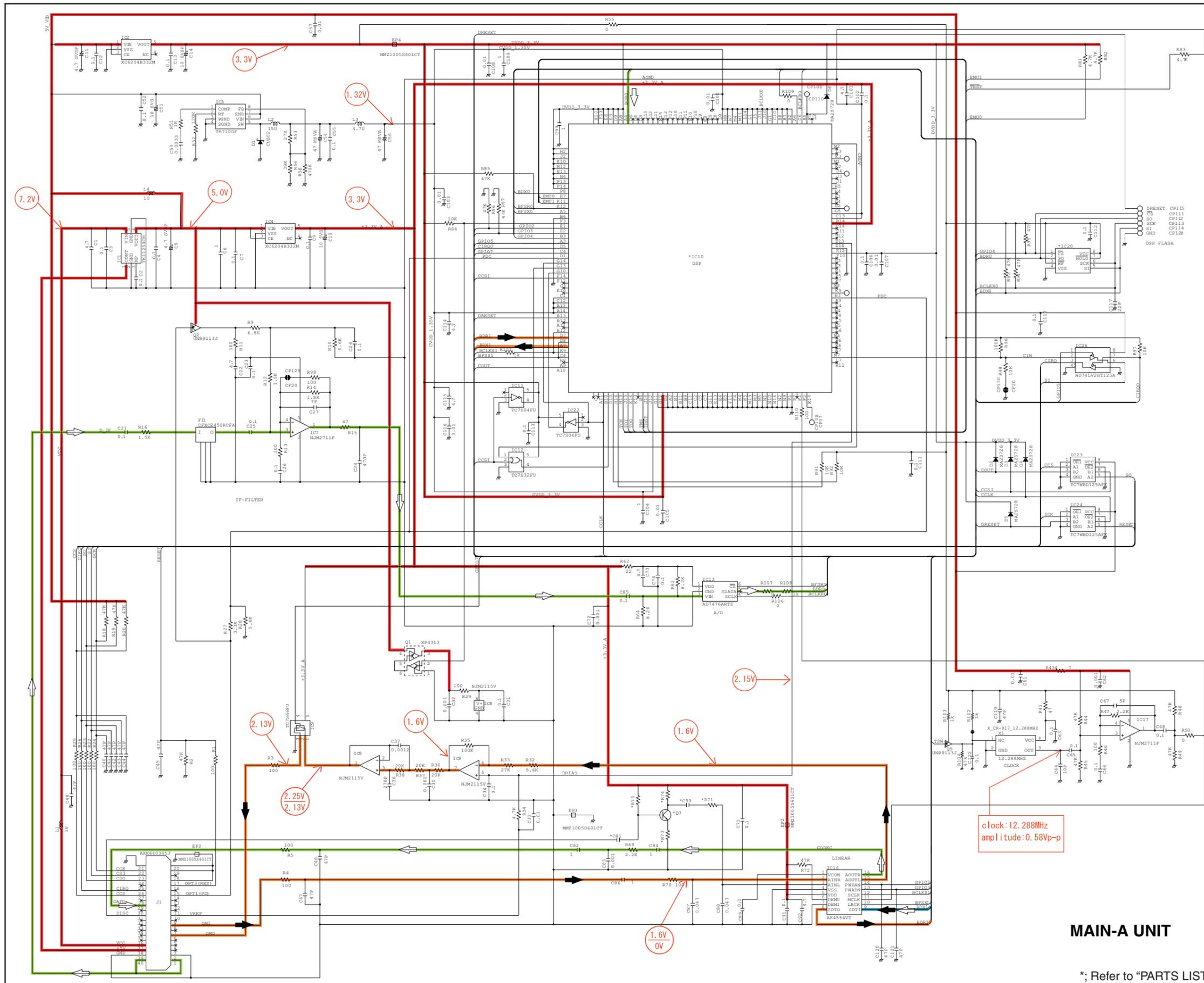
• MAIN-A UNIT  
(BOTTOM VIEW)



# BLOCK DIAGRAM



# VOLTAGE DIAGRAM



MAIN-A UNIT

\*; Refer to "PARTS LIST."



# SERVICE MANUAL

DIGITAL MODULATOR/DEMODULATOR UNIT

## **UT-119H** **UT-126H**

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S-14423XZ-C1  
Feb. 2008

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## INTRODUCTION

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This service manual describes the latest technical information for the **UT-119H** and **UT-126H** DIGITAL MODULATOR/DEMODULATOR UNIT at the time of publication.

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## ORDERING PARTS

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Be sure to include the following four points when ordering replacement parts:

1. 10-digit Icom parts numbers
2. Component name
3. Equipment model name and unit name
4. Quantity required

### <ORDER EXAMPLE>

1180002271	TK11250CM	UT-126H	MAIN-A UNIT	1 piece
6050012350	CR-817	UT-126H	MAIN-A UNIT	2 pieces

Addresses are provided on the inside back cover for your convenience.

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## CAUTION

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**NEVER** connect the unit to an AC outlet or to a DC power supply. This will ruin the unit.

**DO NOT** expose the unit to rain, snow or any liquids.

To upgrade quality, any electrical or mechanical parts and internal circuits are subject to change without notice or obligation.



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- SECTION 1 SPECIFICATION
- SECTION 2 PARTS LIST
- SECTION 3 BOARD LAYOUTS
- SECTION 4 BLOCK DIAGRAM
- SECTION 5 VOLTAGE DIAGRAM

**SECTION 1****SPECIFICATION**

- Power supply voltage : 5.5–10 V (supplied from transceiver)
- Modulation method : 4-level FSK (FDMA)
- Data baud rate : 4800 bps
- Encoding method : DVS1 AMBE+2
- Current drain (typical) : 54 mA (at TX)  
45 mA (at RX)  
38 mA (at Stand-by)
  
- Frequency accuracy : Less than  $\pm 10$  ppm
- Modulation input level : 150 mVp-p typ. (normal modulation level)
- Modulation output level : 500 mVrms typ. (max. amplitude pattern)
- AF output level : 35 mVrms typ. (NXDN 1031 pattern)
- Operating temperature range :  $-30^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ ;  $22^{\circ}\text{F}$  to  $140^{\circ}\text{F}$
- Dimensions (approx.) : 35.0 (W) $\times$ 7.0 (H) $\times$ 20.0 (D) mm; 1  $\frac{3}{8}$  (W) $\times$  $\frac{9}{32}$  (H) $\times$  $\frac{25}{32}$  (D) in.
- Weight (approx.) : 3.5 g;  $\frac{1}{8}$  oz
- Connector type : AXK640345J

SECTION 2

PARTS LIST

[MAIN-A UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
IC1	1180002271	S.REG TK11250CMCL-G	T	29.2/10.9
IC2	1180002590	S.REG XC6204B332MR	B	12/3.7
IC3	1110006700	S.IC TB7100F (TE85L,F)	T	26.9/17.1
IC4	1180002590	S.REG XC6204B332MR	T	22.7/10.9
IC7	1110006230	S.IC NJM2711F-TE1	T	25.4/2.3
IC8	1110005290	S.IC NJM2115V-TE1	B	21.6/12.7
IC9	1130007021	S.IC TC7S66FU (TE85L,F)	B	22.8/16.3
IC10	1140013290	S.IC TMS320VC5509AZHH	T	7.2/11.1
IC11	1130006891	S.IC TC7S04FU (TE85R,F)	B	8.2/10.5
IC12	1130007281	S.IC TC7S32FU (TE85R,F)	B	8.2/13.4
IC13	1190002080	S.IC AD7476ARTZ-500RL7	T	17.4/3
IC16	1130012910	S.IC AK4554VTP-E2/P	B	24/3
IC17	1110006230	S.IC NJM2711F-TE1	B	17.2/3.7
IC18	1140008650	S.IC HN58X2464TI	B	4.2/7.2
IC20	1130013360	S.IC AT25F2048N-10SU-2.7SL383	B	4.1/2.6
IC22	1130006891	S.IC TC7S04FU (TE85R,F)	T	15.1/10.8
IC23	1130013040	S.IC TC7WBD125AFK (T5L,F)	B	5.3/14.5
IC24	1130013040	S.IC TC7WBD125AFK (T5L,F)	B	14.6/14.5
IC26	1130013050	S.IC HD74LV2GT125AUSE-E	B	11/14.5
Q1	1590003550	S.TR XP4313 (TX)	B	19.8/17
Q2	1590003230	S.TR UNR9113J-(TX)	T	23.8/8
Q3	1530003190	S.TR 2SC4617 TLQ	B	33.5/4.4
D1	1750001280	S.DIO CUS02 (TE85L,Q)	T	24.4/14.4
D2	1790001240	S.DIO MA2S728-(TX)	B	8.3/16.6
D3	1790001240	S.DIO MA2S728-(TX)	B	5.1/17.6
D4	1790001240	S.DIO MA2S728-(TX)	B	6.9/17.5
D5	1790001240	S.DIO MA2S728-(TX)	B	4/9.7
D6	1790001240	S.DIO MA2S728-(TX)	B	2.5/17.6
FI1	2020002210	S.CER CFXCE450KCF-A-R1	T	29.3/2.1
X1	6050012350	S.XTL CR-817 (12.288 MHz)	B	15.2/9.5
L1	6200001620	S.COL ELJFC 1R0K-F	T	32.9/9.8
L2	6200012090	S.COL CDRH2D18HP-150NC	T	21.4/17.5
L3	6200007830	S.COL ELJFC 4R7K-F	T	17.3/18.8
L4	6200001620	S.COL ELJFC 1R0K-F	T	30/6.5
R1	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/14.6
R2	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	25.1/16.1
R3	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/13.7
R4	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/9
R5	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.2/9.9
R9	7030005290	S.RES ERJ2GEJ 682 X (6.8 k)	T	26/6.4
R10	7030009290	S.RES ERJ2GEJ 562 X (5.6 k)	T	27.8/6.4
R11	7030004980	S.RES ERJ2GEJ 101 X (100)	T	25.1/6.4
R12	7030005030	S.RES ERJ2GEJ 152 X (1.5 k)	T	26.9/4.8
R13	7030004980	S.RES ERJ2GEJ 101 X (100)	T	22.3/2.8
R14	7030008400	S.RES ERJ2GEJ 182 X (1.8 k)	T	21.4/1.2
R15	7030004970	S.RES ERJ2GEJ 470 X (47)	T	20.5/1.2
R16	7030005030	S.RES ERJ2GEJ 152 X (1.5 k)	T	30/4.6
R18	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	15.1/18.3
R19	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	3.5/15.4
R20	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	7.1/15.4
R22	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27.6/18.1
R23	7030004980	S.RES ERJ2GEJ 101 X (100)	B	27.1/17.2
R24	7030004980	S.RES ERJ2GEJ 101 X (100)	B	29.2/18.9
R25	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.4/18.9
R26	7030004980	S.RES ERJ2GEJ 101 X (100)	B	33.4/17.8
R27	7030007300	S.RES ERJ2GEJ 332 X (3.3 k)	T	31.2/13.7
R28	7030009290	S.RES ERJ2GEJ 562 X (5.6 k)	T	32.2/13.7
R32	7030009290	S.RES ERJ2GEJ 562 X (5.6 k)	B	19.6/7
R33	7030005600	S.RES ERJ2GEJ 273 X (27 k)	B	19.6/8.9
R34	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	B	17.3/11.8
R35	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	19.8/10.1
R36	7030009710	S.RES ERJ2GEJ 203 X (20 k)	B	21.4/10.1
R37	7030009710	S.RES ERJ2GEJ 203 X (20 k)	B	24.6/10.1
R38	7030009710	S.RES ERJ2GEJ 203 X (20 k)	B	26.3/11.9
R39	7030004980	S.RES ERJ2GEJ 101 X (100)	B	20.1/15.2
R41	7030004970	S.RES ERJ2GEJ 470 X (47)	B	13.1/6.8
R43	7030004970	S.RES ERJ2GEJ 470 X (47)	B	17.6/6.8
R44	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	17.8/5.9
R45	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	16.3/6.6
R46	7030004980	S.RES ERJ2GEJ 101 X (100)	B	18.5/1.2
R47	7030007290	S.RES ERJ2GEJ 222 X (2.2 k)	B	17.6/1.2
R48	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	14.6/4.7
R49	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	14.6/1.8
R50	7030010040	S.RES ERJ2GEJ-JPW	B	14.6/3.8
R51	7030005120	S.RES ERJ2GEJ 102 X (1 k)	T	29.5/19.2
R52	7030005310	S.RES ERJ2GEJ 124 X (120 k)	T	29.5/18.2
R53	7030011060	S.RES RR0510P-273-D (27 k)	T	21/14.3
R54	7030008260	S.RES RR0510R-393-D (39 k)	T	22/14.3
R55	7030010040	S.RES ERJ2GEJ-JPW	B	13.1/5.9
R56	7030005170	S.RES ERJ2GEJ 474 X (470 k)	T	23/14.3
R62	7030007250	S.RES ERJ2GEJ 220 X (22)	T	15.8/6.8
R63	7030005210	S.RES ERJ2GEJ 822 X (8.2 k)	T	18.3/8
R64	7030005210	S.RES ERJ2GEJ 822 X (8.2 k)	T	19.6/2.8
R69	7030007290	S.RES ERJ2GEJ 222 X (2.2 k)	B	20.5/8.9
R70	7030004980	S.RES ERJ2GEJ 101 X (100)	B	26.3/7.2
R71	7030004980	S.RES ERJ2GEJ 101 X (100)	B	29.3/3.9

[MAIN-A UNIT]

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
R72	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	28.4/2.3
R73	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	34.2/1.6
R74	7030005120	S.RES ERJ2GEJ 102 X (1 k)	B	31.9/3.9
R75	7030008300	S.RES ERJ2GEJ 184 X (180 k)	B	33.8/5.9
R81	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	T	9.9/4.3
R82	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	T	8.3/4.3
R83	7030005040	S.RES ERJ2GEJ 472 X (4.7 k)	T	12.3/4.3
R84	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	1.9/9.7
R85	7030005240	S.RES ERJ2GEJ 473 X (47 k)	T	15.8/5.6
R86	7030005240	S.RES ERJ2GEJ 473 X (47 k)	T	23.5/5.2
R87	7030005240	S.RES ERJ2GEJ 473 X (47 k)	T	22.1/6.7
R91	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	10.5/8.9
R92	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	11.4/8.9
R93	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	8.6/1.3
R94	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	8.6/2.9
R95	7030005240	S.RES ERJ2GEJ 473 X (47 k)	B	8.6/3.8
R96	7030005090	S.RES ERJ2GEJ 104 X (100 k)	B	
R97	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	10.5/10.7
R98	7030005050	S.RES ERJ2GEJ 103 X (10 k)	B	11.4/10.7
R99	7030004980	S.RES ERJ2GEJ 101 X (100)	B	3.6/12
C1	4030018560	S.CER C2012 JB 1A 475K-T	T	32.9/12
C2	4030016930	S.CER ECJ0EB1A104K	T	26.7/11.8
C3	4030016930	S.CER ECJ0EB1A104K	T	29.9/8.3
C4	4030016930	S.CER ECJ0EB1A104K	T	26.7/10
C5	4550007070	S.TAN TEESVP 1A 475M8R	T	25.3/10.9
C6	4030018860	S.CER ECJ0EB0J105K	T	26.7/8.4
C7	4030016930	S.CER ECJ0EB1A104K	T	25.8/8.4
C9	4030016930	S.CER ECJ0EB1A104K	T	18.4/9.9
C10	4550007030	S.TAN TEESVP 0J 106M8R	T	20.1/10.9
C11	4550007070	S.TAN TEESVP 1A 475M8R	B	12/1
C12	4030016930	S.CER ECJ0EB1A104K	B	14.6/8
C13	4030016930	S.CER ECJ0EB1A104K	B	9.8/4.1
C14	4550007030	S.TAN TEESVP 0J 106M8R	B	10.6/6.3
C21	4030016930	S.CER ECJ0EB1A104K	T	31.6/4.6
C22	4030018910	S.CER C1608 JB 0J 475K-T	T	25.2/5
C23	4030016930	S.CER ECJ0EB1A104K	T	23.9/6.4
C24	4030016930	S.CER ECJ0EB1A104K	T	26.9/6.4
C25	4030016930	S.CER ECJ0EB1A104K	T	27.8/4.8
C26	4030016930	S.CER ECJ0EB1A104K	T	21.4/2.8
C27	4030017590	S.CER ECJ0EC1H070C	T	22.3/1.2
C28	4030017730	S.CER ECJ0EB1E471K	T	20.5/2.8
C31	4030016930	S.CER ECJ0EB1A104K	B	18.2/15
C32	4030017460	S.CER ECJ0EB1E102K	B	17.9/17.2
C33	4030016790	S.CER ECJ0EB1C103K	B	13.7/13.4
C34	4030016930	S.CER ECJ0EB1A104K	B	18/10
C35	4030017460	S.CER ECJ0EB1E102K	B	23/10.1
C36	4030017450	S.CER ECJ0EB1E271K	B	24.8/11
C37	4030017750	S.CER ECJ0EB1E122K	B	26.3/12.8
C40	4030017420	S.CER ECJ0EC1H470J	B	26.2/19.2
C41	4030017420	S.CER ECJ0EC1H470J	B	25.4/18.3
C42	4030017420	S.CER ECJ0EC1H470J	B	24.9/17.4
C43	4030017420	S.CER ECJ0EC1H470J	T	31.2/18.2
C44	4030017420	S.CER ECJ0EC1H470J	B	31.7/18.9
C45	4030017420	S.CER ECJ0EC1H470J	B	26.3/15.6
C46	4030017420	S.CER ECJ0EC1H470J	B	24.1/8.9
C47	4030017420	S.CER ECJ0EC1H470J	B	25.1/8.5
C48	4030017420	S.CER ECJ0EC1H470J	T	33.2/13.7
C51	4550007030	S.TAN TEESVP 0J 106M8R	T	24.3/17.9
C52	4030016930	S.CER ECJ0EB1A104K	T	26.2/14.2
C53	4030017770	S.CER ECJ0EB1E332K	T	31.2/19.2
C54	4550006970	S.TAN TEESVA0G476M8R	T	18.4/15.1
C55	4030016930	S.CER ECJ0EB1A104K	T	20/14.3
C56	4550006970	S.TAN TEESVA0G476M8R	T	16.2/15.1
C57	4030016790	S.CER ECJ0EB1C103K	B	17.8/7.7
C61	4030016790	S.CER ECJ0EB1C103K	B	13.9/17.6
C62	4030017460	S.CER ECJ0EB1E102K	B	19.4/2.9
C63	4030016930	S.CER ECJ0EB1A104K	B	12.9/8.6
C64	4030017620	S.CER ECJ0EC1H100C	B	14.8/6.8
C65	4030016930	S.CER ECJ0EB1A104K	B	14.8/5.9
C66	4030016930	S.CER ECJ0EB1A104K	B	19.4/1.2
C67	4030017380	S.CER ECJ0EC1H050B	B	16.7/1.2
C68	4030016930	S.CER ECJ0EB1A104K	B	15.8/1.2
C71	4030016930	S.CER ECJ0EB1A104K	B	33.8/7.1
C72	4030017460	S.CER ECJ0EB1E102K	T	18.7/8
C73	4030018910	S.CER C1608 JB 0J 475K-T	T	14.4/4.5
C74	4030016930	S.CER ECJ0EB1A104K	T	16.5/8
C81	4030018860	S.CER ECJ0EB0J105K	B	34.2/9.6
C82	4030018860	S.CER ECJ0EB0J105K	B	23.2/8.9
C83	4030017460	S.CER ECJ0EB1E102K	B	22.3/8.9
C84	4030018860	S.CER ECJ0EB0J105K	B	20.5/7
C85	4030016930	S.CER ECJ0EB1A104K	T	19.6/1.2
C86	4030018860	S.CER ECJ0EB0J105K	B	26.3/8.1
C87	4030016950	S.CER ECJ0EB1A473K	B	26.3/6.3
C88	4030016950	S.CER ECJ0EB1A473K	B	28.4/3.9
C89	4030016930	S.CER ECJ0EB1A104K	B	25.6/6
C91	4030016930	S.CER ECJ0EB1A104K	B	30.7/1.5
C92	4030018910	S.CER C1608 JB 0J 475K-T	B	29.5/1.8
C93	4030018860	S.CER ECJ0EB0J105K	B	30.3/3.9
C100	4030016790	S.CER ECJ0EB1C103K	T	14.9/8.4
C101	4030018910	S.CER C1608 JB 0J 475K-T	T	14.1/16.7
C102	4030016930	S.CER ECJ0EB1A104K	B	17.3/15
C103	4030016790	S.CER ECJ0EB1C103K	T	11.6/18.2
C104	4030018860	S.CER ECJ0EB0J105K	T	14/8.4
C105	4030016790	S.CER ECJ0EB1C103K	T	14.9/6.8

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

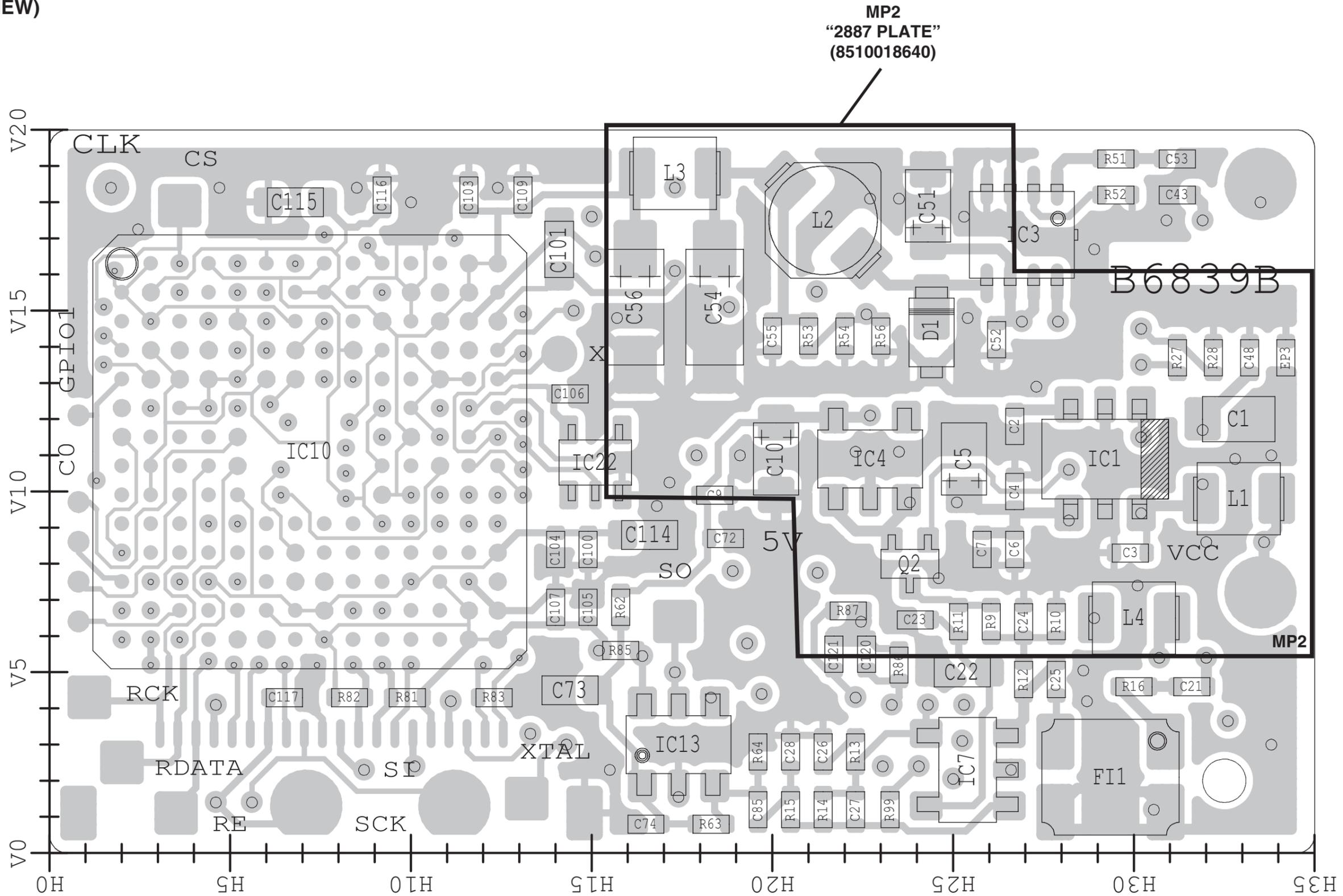
**[MAIN-A UNIT]**

REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
C106	4030016930	S.CER ECJ0EB1A104K	T	14.4/12.7
C107	4030016790	S.CER ECJ0EB1C103K	T	14/6.8
C108	4030016790	S.CER ECJ0EB1C103K	B	2.5/10.6
C109	4030018860	S.CER ECJ0EB0J105K	T	13.1/18.2
C110	4030016930	S.CER ECJ0EB1A104K	B	3.5/13.8
C111	4030016930	S.CER ECJ0EB1A104K	B	10.4/7.7
C112	4030016930	S.CER ECJ0EB1A104K	B	9.8/1.2
C113	4030016930	S.CER ECJ0EB1A104K	B	5.7/9.9
C114	4030018910	S.CER C1608 JB 0J 475K-T	T	16.6/8.8
C115	4030018910	S.CER C1608 JB 0J 475K-T	T	6.8/18
C116	4030016790	S.CER ECJ0EB1C103K	T	9.2/18.2
C117	4030017400	S.CER ECJ0EC1H220J [UT-126H] only	T	6.5/4.3
C119	4030017420	S.CER ECJ0EC1H470J [UT-126H] only	B	8.5/6.3
C120	4030017420	S.CER ECJ0EC1H470J [UT-126H] only	T	22.6/5.5
C121	4030017420	S.CER ECJ0EC1H470J [UT-126H] only	T	21.7/5.5
J1	6510025230	S.CNR AXK640345J	B	30.3/11.5
EP2	6910016330	S.BEA MMZ1005S 601CT-S	B	30.9/2.7
EP3	6910016330	S.BEA MMZ1005S 601CT-S	T	34.2/13.7
EP4	6910016330	S.BEA MMZ1005S 601CT-S	B	8.6/4.7

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)  
S.=Surface mount

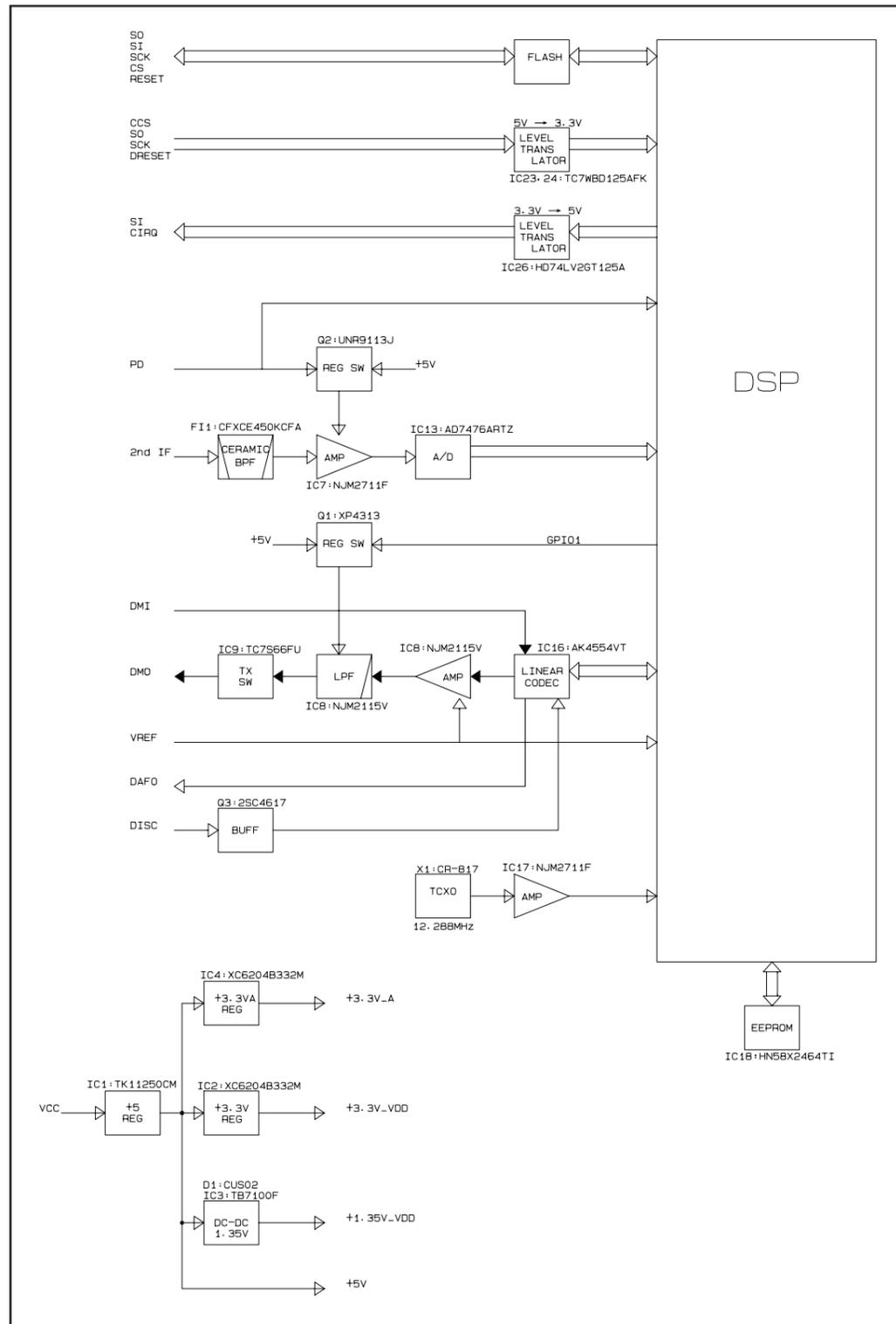
**SECTION 3 BOARD LAYOUTS**

**• MAIN-A UNIT  
(TOP VIEW)**

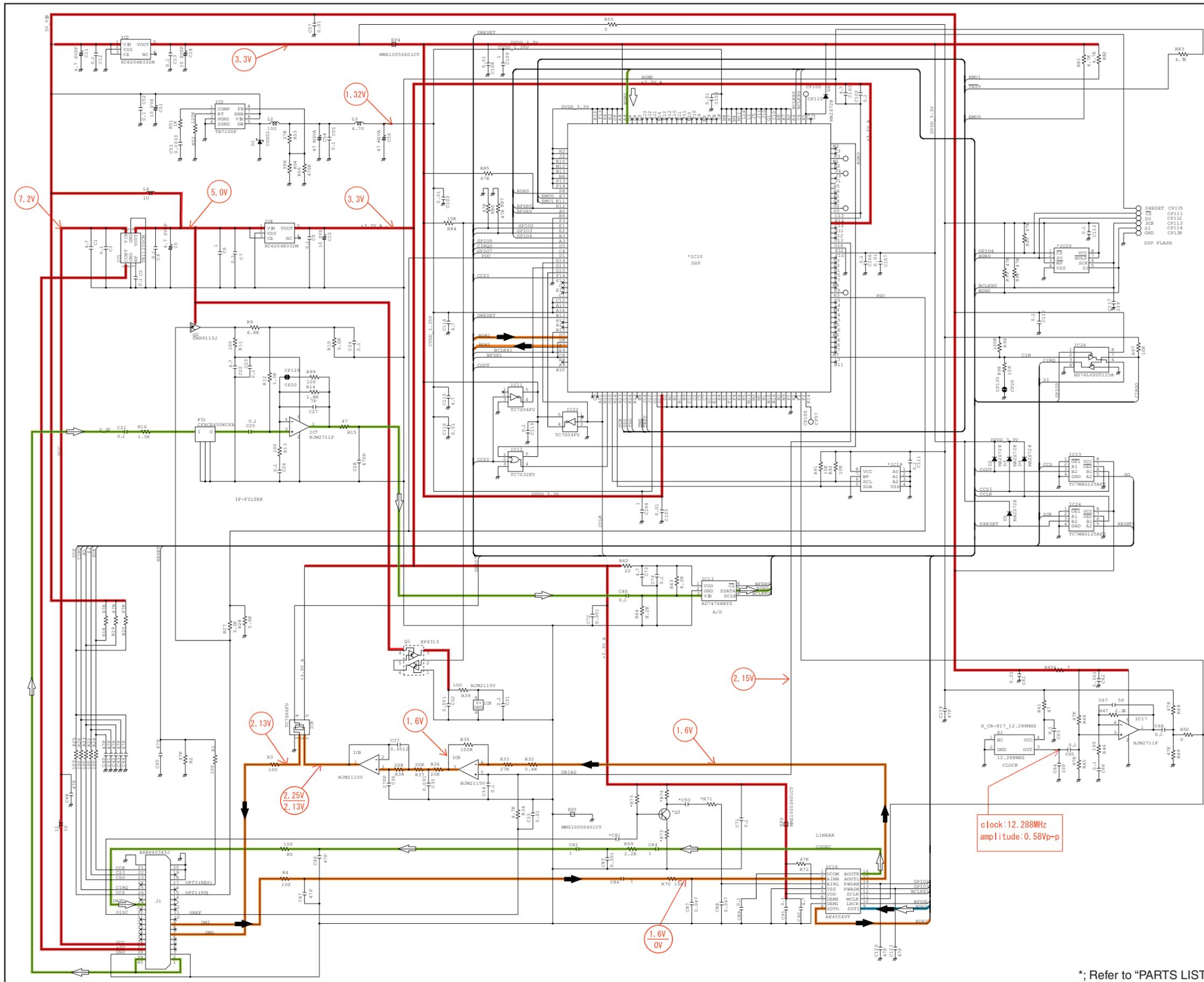




SECTION 4 BLOCK DIAGRAM



# SECTION 5 VOLTAGE DIAGRAM



clock: 12.288MHz  
amplitude: 0.58Vp-p

\*; Refer to "PARTS LIST."

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