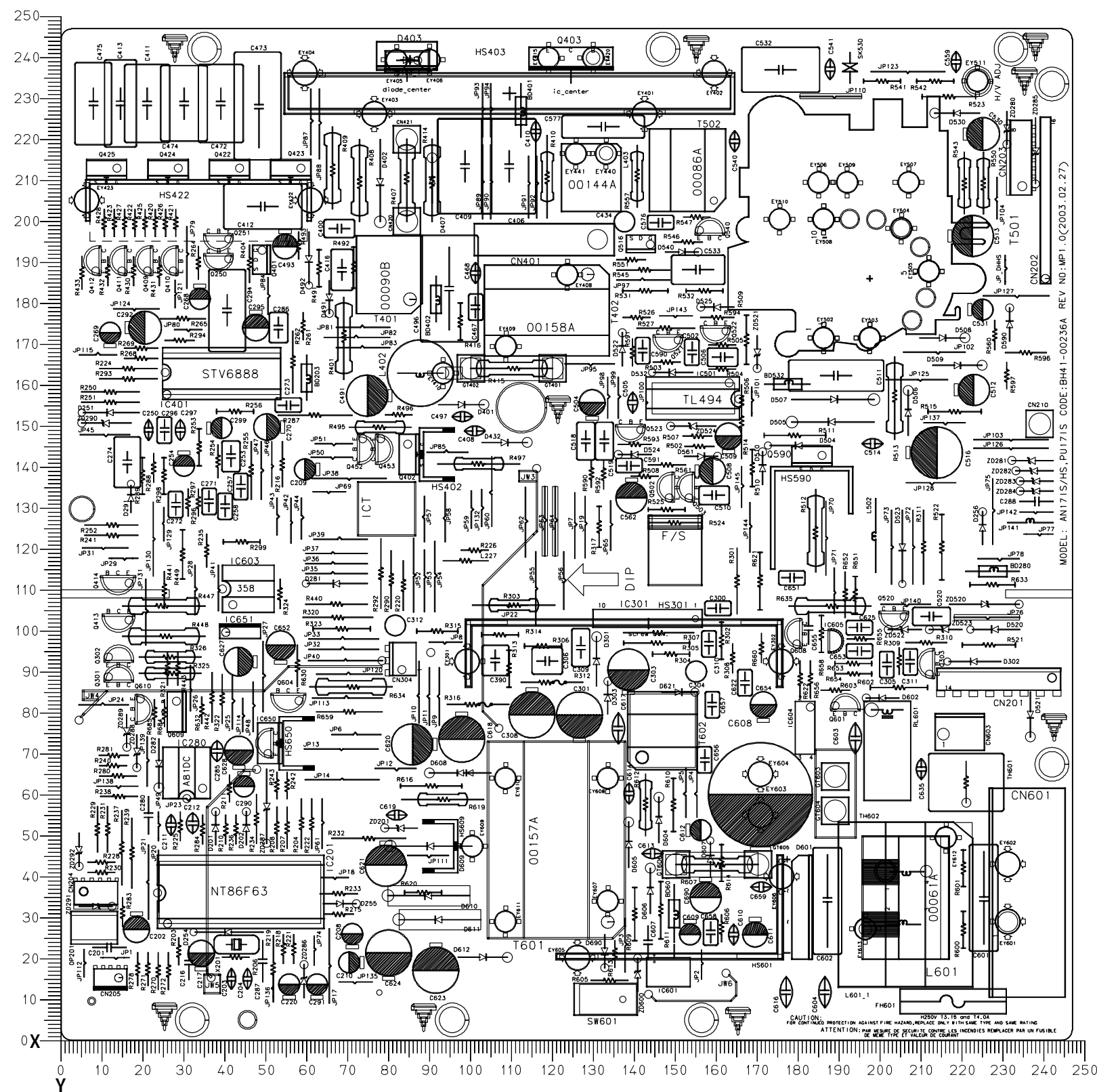


10 PCB Layout

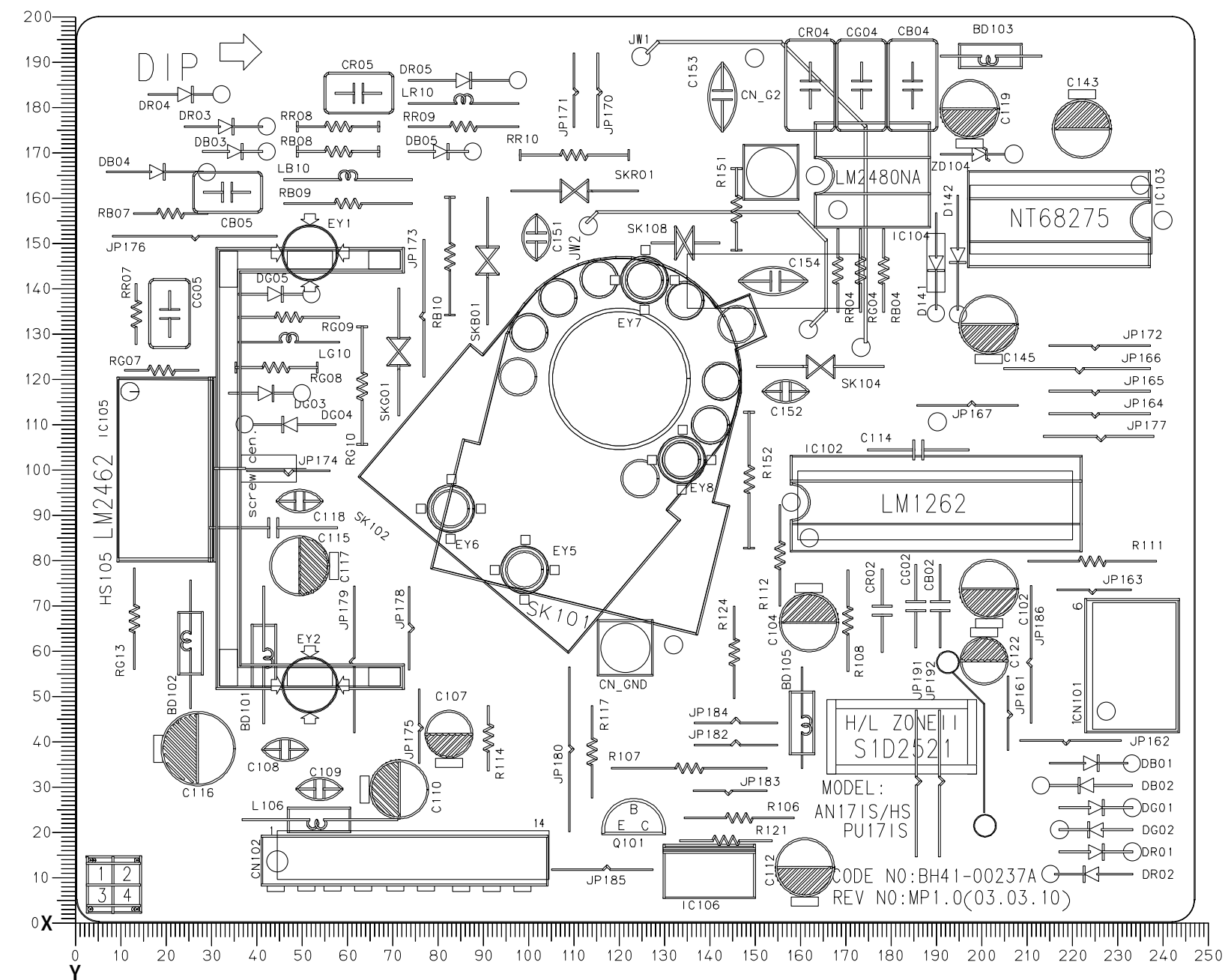
10-1-1 PU17IS Main PCB Layout



Loc. No.	Description	X	Y
DIODE			
D201	ST : 75V,150MA,1V,10MA,	37.7	47.8
D202	ST : 75V,150MA,1V,10MA,	45.2	47.8
D251	ST : 75V,150MA,1V,10MA,	19	153.25
D254	ST : 75V,150MA,1V,10MA,	49.3	26.4
D255	ST : 75V,150MA,1V,10MA,	64.05	33.35
D256	ST : 75V,150MA,1V,10MA,	225.05	121.1
D281	ST : 75V,150MA,1V,10MA,	74.75	111.5
D282	DIODE-RECTIFIER	23.9	73.6
D291	DIODE-SWITCHING	17.05	128.9
D301	DIODE-RECTIFIER	130.75	86.5
D302	ST : 75V,150MA,1V,10MA,	229.45	92.5
D303	ST : 75V,150MA,1V,10MA,	133.5	79.65
D401	DIODE-RECTIFIER	92.25	155.2
D402	DIODE-RECTIFIER	77.9	219.9
D403	DIODE-RECTIFIER	87.05	239.3
D407	DIODE-RECTIFIER	90.6	204.45
D403_1	DIODE-RECTIFIER	89.95	239.4
D432	DIODE-RECTIFIER	102.8	145.95
D491	ST : 75V,150MA,1V,10MA,	65.5	185.45
D492	ST : 75V,150MA,1V,10MA,	60.5	197.3
D504	ST : 75V,150MA,1V,10MA,	187.7	145.2
D505	DIODE-RECTIFIER	198.5	151
D506	DIODE-RECTIFIER	206.9	147.7
D507	DIODE-RECTIFIER	178.5	156.5
D508	DIODE-RECTIFIER	209.75	171.5
D509	DIODE-RECTIFIER	212.9	164.8
D510	ST : 75V,150MA,1V,10MA,	171.3	135.7
D520	DIODE-SWITCHING	234.1	100.35
D521	DIODE-RECTIFIER	236.75	85.05
D522	ST : 75V,150MA,1V,10MA,	137.05	164.75
D523	ST : 75V,150MA,1V,10MA,	205.45	129.4
D524	ST : 75V,150MA,1V,10MA,	144.1	143
D525	ST : 75V,150MA,1V,10MA,	164.25	179
D530	DIODE-RECTIFIER	224.35	226.4
D532	ST : 75V,150MA,1V,10MA,	154.3	163.1
D540	ST : 75V,150MA,1V,10MA,	147.6	192.45
D561	ST : 75V,150MA,1V,10MA,	152.3	142.55
D590	ST : 75V,150MA,1V,10MA,	231.65	170.8
D601	DIODE-BRIDGE	180.25	43.75
D602	ST : 75V,150MA,1V,10MA,	204.6	83.55
D604	DIODE-RECTIFIER	146	48.3
D605	DIODE-RECTIFIER	138.65	42.3
D606	DIODE-RECTIFIER	143.9	31
D607	ST : 75V,150MA,1V,10MA,	158.6	39.8
D608	DIODE-RECTIFIER	104.95	65.3
D609	PR: DIODE-RECTIFIER	100.4	47.4
D610	DIODE-RECTIFIER	99.85	35.3
D611	PR: DIODE-RECTIFIER	102.5	29.45
D612	DIODE-RECTIFIER	97	20.3
D621	ST : 75V,150MA,1V,10MA,	146.8	85
D690	ST : 75V,150MA,1V,10MA,	132.75	25.75
ZD201	DIODE-ZENER	87	51.8
ZD280	DIODE-ZENER	231	226.75
ZD281	DIODE-ZENER	242.2	141.55
ZD282	DIODE-ZENER	242.2	139.05
ZD283	DIODE-ZENER	242.2	136.55
ZD284	DIODE-ZENER	242.2	134.1
ZD285	DIODE-ZENER	238	225.15
ZD286	DIODE-ZENER	59.3	10.45
ZD287	DIODE-ZENER	50.2	66.15
ZD288	DIODE-ZENER	18.5	74.6

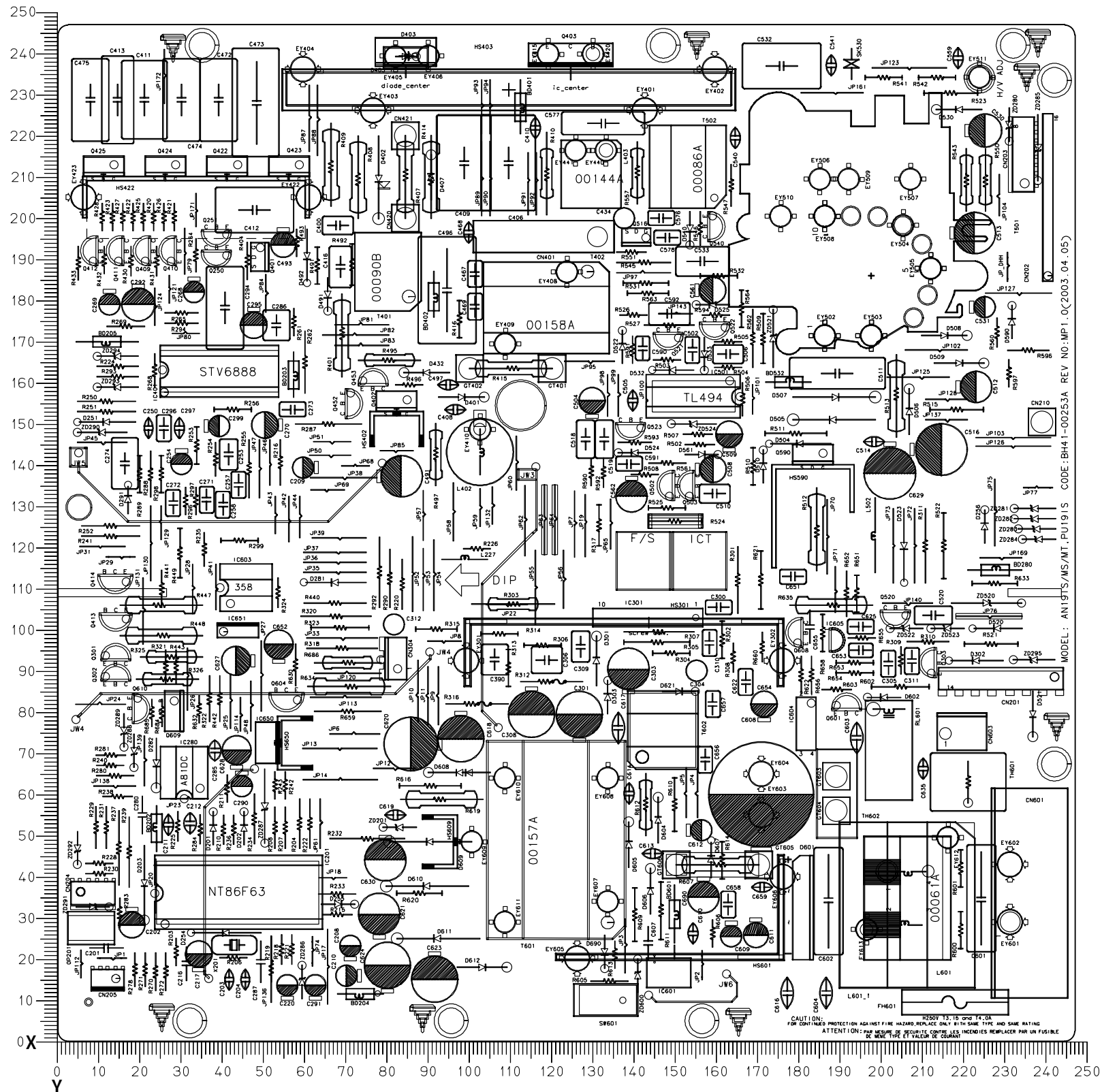
Loc. No.	Description	X	Y
ZD289	DIODE-ZENER	16	79.55
ZD290	DIODE-ZENER	17	150.7
ZD291	DIODE-ZENER	4.45	32.7
ZD292	DIODE-ZENER	4.35	50.5
ZD520	DIODE-ZENER	217	106.5
ZD521	DIODE-ZENER	170	172.05
ZD522	DIODE-ZENER	210.05	100.35
ZD523	DIODE-ZENER	220.05	100.35
ZD524	DIODE-ZENER	159.9	150
ZD600	DIODE-ZENER	140.8	12
IC			
IC201	IC-MICROCONTROLLER	26	28.5
IC280	IC-EEPROM	34.5	61.5
IC301	IC-VERTICAL DEF.	154.9	103
IC401	IC-HOR./VER.PROCESSO	25.8	157.7
IC501	IC-PWM CONTROLLER	163.15	160.5
IC601	IC-HYBRID	148.35	17.5
IC603	IC-OP AMP	41.9	106.4
IC604	PHOTO-COUPLER	183	81.35
IC605	RU : TO-92,3-,36V(T)-SIMPLE	188.5	100
IC650	IC-POSIFIXED REG.	50.5	70
IC651	ST : TO-220,4-,5V	40.2	99.6
TRANSISTOR			
Q250	ST : 0.25W,60V,50V,5V,0.15A,	40.95	190.8
Q251	TR-SMALL SIGNAL	40.95	195.7
Q301	ST : 0.25W,60V,50V,5V,0.15A,	11.5	88.7
Q302	TR-SMALL SIGNAL	11.5	93.55
Q303	ST : 0.25W,60V,50V,5V,0.15A,	212.1	89.45
Q401	FET-SILICON	49.1	192.9
Q402	FET-SILICON	84.7	145.6
Q403	TR-POWER	129.95	239.9
Q409	ST : 0.25W,60V,50V,5V,0.15A,	21.1	187.8
Q410	ST : 0.25W,60V,50V,5V,0.15A,	27.35	187.8
Q411	ST : 0.25W,60V,50V,5V,0.15A,	14.8	187.8
Q412	ST : 0.25W,60V,50V,5V,0.15A,	8.5	187.8
Q413	TR-SMALL SIGNAL	16.55	102.65
Q414	TR-SMALL SIGNAL	16.55	111.7
Q422	FET-SILICON	43.6	212.95
Q423	FET-SILICON	58.6	212.95
Q424	FET-SILICON	28.6	212.95
Q425	FET-SILICON	13.6	212.95
Q452	ST : 0.25W,60V,50V,5V,0.15A,	73.6	146.85
Q453	TR-SMALL SIGNAL	78.05	146.85
Q502	TR-SMALL SIGNAL	148.5	132.5
Q503	TR-SMALL SIGNAL	153.4	132.5
Q516	FET-SILICON	143.9	194.3
Q520	TR-SMALL SIGNAL	205.9	103.5
Q521	TR-SMALL SIGNAL	150.75	171
Q522	TR-SMALL SIGNAL	162.35	173.2
Q523	TR-SMALL SIGNAL	141.6	149.1
Q540	TR-SMALL SIGNAL	155.9	197.8
Q590	FET-SILICON	185.85	142.85
Q601	TR-SMALL SIGNAL	189	81.65
Q604	TR-SMALL SIGNAL	58.15	82.95
Q608	ST : 0.25W,60V,50V,5V,0.15A,	179.7	96.8
Q609	TR-POWER	28.2	82.75
Q610	ST : 0.25W,60V,50V,5V,0.15A,	19.3	83.4

10-1-2 PU17IS Video PCB Layout



Loc. No.	Description	X	Y
DIODE			
D141	DIODE-SWITCHING	94.95	78.25
D142	DIODE-SWITCHING	97.35	80.15
DB01	DIODE-SWITCHING	107.55	17.55
DB02	DIODE-SWITCHING	116.55	15.10
DB03	DIODE-SWITCHING	14.00	85.10
DB04	DIODE-SWITCHING	3.40	82.85
DB05	DIODE-SWITCHING	36.75	85.10
DG01	DIODE-SWITCHING	108.60	12.65
DG02	DIODE-SWITCHING	116.60	10.20
DG03	DIODE-SWITCHING	16.90	58.40
DG04	DIODE-SWITCHING	28.60	54.95
DG05	DIODE-SWITCHING	17.95	69.35
DR01	DIODE-SWITCHING	108.60	7.75
DR02	DIODE-SWITCHING	116.60	5.30
DR03	DIODE-SWITCHING	12.00	87.85
DR04	DIODE-SWITCHING	8.00	91.40
DR05	DIODE-SWITCHING	36.75	92.95
ZD104	DIODE-ZENER	95.50	84.80
IC			
IC101	IC-VIDEO AMP	90.85	20.40
IC102	IC-VIDEO AMP	80.96	42.46
IC103	IC-OSD PROCESSOR	117.50	81.40
IC104	IC-BIAS CLAMP	84.10	78.65
IC105	IC HYBRID	5.90	58.60
IC106	IC-POS. ADJUST REG.	67.40	5.20
TRANSISTOR			
Q101	TR-SMALL SIGNAL	59.00	10.80

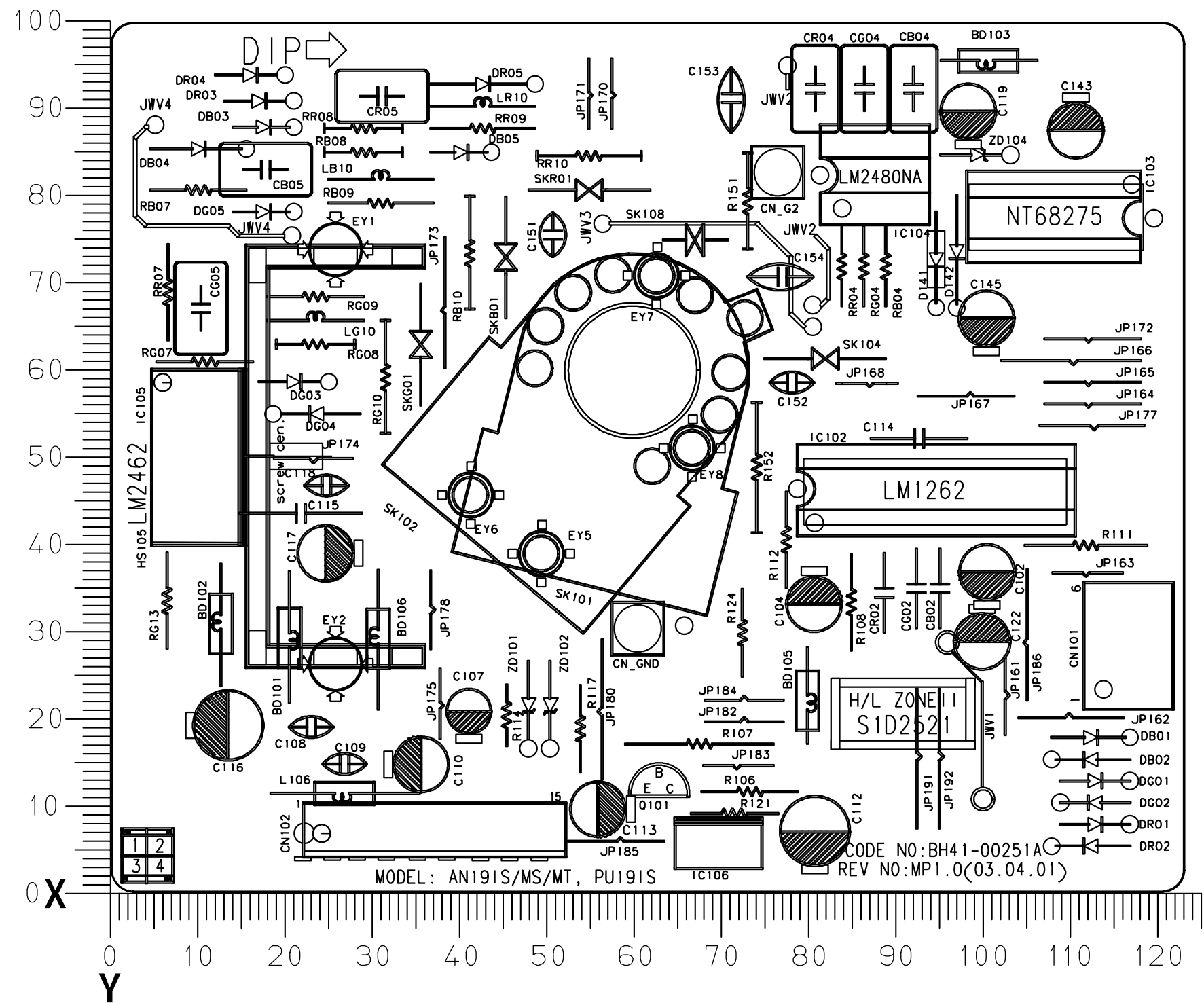
10-2-1 PU19IS Main PCB Layout



Loc. No.	Description	X	Y
DIODE			
D201	ST : 75V,150MA,1V,10MA,	37.7	47.8
D202	ST : 75V,150MA,1V,10MA,	45.2	47.8
D203	DIODE-RECTIFIER	21.0	47.5
D251	ST : 75V,150MA,1V,10MA,	18.8	150.5
D254	ST : 75V,150MA,1V,10MA,	49.3	26.4
D255	ST : 75V,150MA,1V,10MA,	64.1	33.4
D256	ST : 75V,150MA,1V,10MA,	225.1	121.1
D281	ST : 75V,150MA,1V,10MA,	74.8	111.5
D282	DIODE-RECTIFIER	23.9	73.6
D291	DIODE-SWITCHING	17.0	128.3
D301	DIODE-RECTIFIER	130.8	86.5
D302	ST : 75V,150MA,1V,10MA,	229.5	92.5
D303	ST : 75V,150MA,1V,10MA,	133.5	79.7
D401	DIODE-RECTIFIER	92.5	156.5
D402	DIODE-RECTIFIER	77.9	219.9
D403	DIODE-RECTIFIER	87.1	239.3
D407	DIODE-RECTIFIER	90.6	204.5
D403_1	DIODE-RECTIFIER	90.0	239.4
D432	DIODE-RECTIFIER	95.0	162.5
D491	ST : 75V,150MA,1V,10MA,	65.5	185.5
D492	ST : 75V,150MA,1V,10MA,	60.5	197.3
D504	ST : 75V,150MA,1V,10MA,	187.7	145.2
D505	DIODE-RECTIFIER	198.5	151.0
D506	DIODE-RECTIFIER	206.8	147.5
D507	DIODE-RECTIFIER	178.5	156.5
D508	DIODE-RECTIFIER	209.8	171.5
D509	DIODE-RECTIFIER	212.9	164.8
D510	ST : 75V,150MA,1V,10MA,	169.5	130.3
D520	DIODE-SWITCHING	234.1	100.4
D521	DIODE-RECTIFIER	236.8	85.1
D522	ST : 75V,150MA,1V,10MA,	137.1	164.8
D523	ST : 75V,150MA,1V,10MA,	205.5	129.4
D524	ST : 75V,150MA,1V,10MA,	144.1	143.0
D525	ST : 75V,150MA,1V,10MA,	163.0	179.0
D530	DIODE-RECTIFIER	224.4	226.4
D532	ST : 75V,150MA,1V,10MA,	154.3	163.1
D533	ST : 75V,150MA,1V,10MA,	157.0	171.0
D540	ST : 75V,150MA,1V,10MA,	153.5	201.5
D561	ST : 75V,150MA,1V,10MA,	152.3	142.6
D590	ST : 75V,150MA,1V,10MA,	231.7	170.8
D601	DIODE-BRIDGE	180.3	43.8
D602	ST : 75V,150MA,1V,10MA,	204.6	83.6
D604	DIODE-RECTIFIER	145.8	48.3
D605	DIODE-RECTIFIER	138.7	42.3
D606	DIODE-RECTIFIER	143.9	31.0
D607	ST : 75V,150MA,1V,10MA,	158.6	39.8
D608	DIODE-RECTIFIER	105.0	65.3
D609	PR: DIODE-RECTIFIER	100.5	48.5
D610	PR: DIODE-RECTIFIER	99.8	37.8
D611	PR: DIODE-RECTIFIER	102.4	25.0
D612	DIODE-RECTIFIER	97.0	18.0
D621	ST : 75V,150MA,1V,10MA,	146.8	85.0
D690	ST : 75V,150MA,1V,10MA,	132.8	25.8
D691	ST : 75V,150MA,1V,10MA,	179.0	142.0
ZD201	DIODE-ZENER	87.0	52.0
ZD202	DIODE-ZENER	38.6	66.2
ZD203	DIODE-ZENER	91.3	104.8
ZD204	DIODE-ZENER	93.8	104.8
ZD205	DIODE-ZENER	5.0	9.5
ZD206	DIODE-ZENER	7.5	9.5
ZD280	DIODE-ZENER	231.0	226.8
ZD281	DIODE-ZENER	242.3	129.5
ZD282	DIODE-ZENER	242.3	127.0
ZD283	DIODE-ZENER	242.3	124.5
ZD284	DIODE-ZENER	242.3	122.0
ZD285	DIODE-ZENER	238.0	225.2

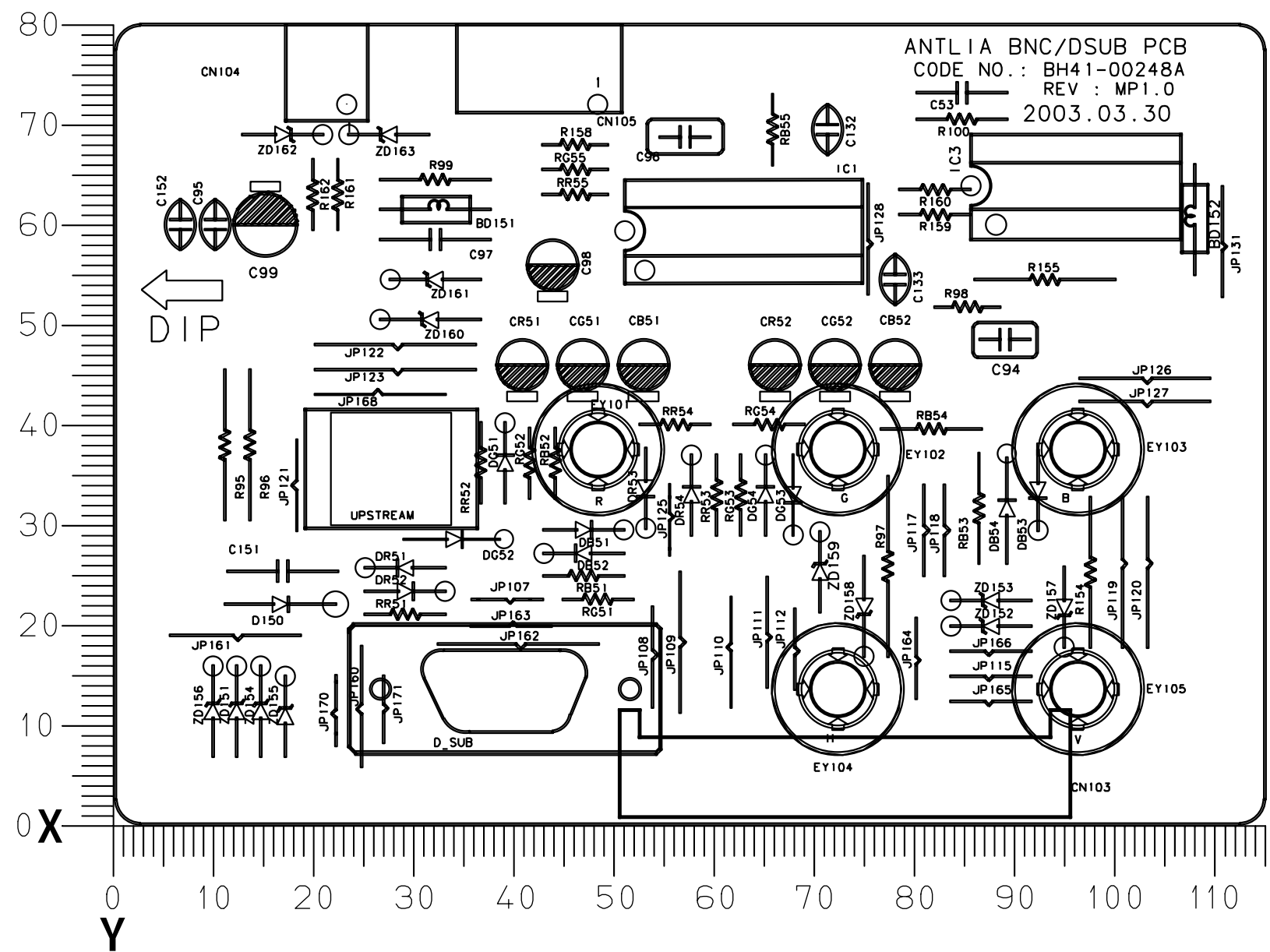
Loc. No.	Description	X	Y
ZD286	DIODE-ZENER	59.3	10.5
ZD287	DIODE-ZENER	50.2	66.2
ZD288	DIODE-ZENER	18.5	74.6
ZD289	DIODE-ZENER	16.0	79.6
ZD290	DIODE-ZENER	16.8	148.0
ZD291	DIODE-ZENER	4.5	32.7
ZD292	DIODE-ZENER	4.8	51.0
ZD293	DIODE-ZENER	19.5	159.0
ZD294	DIODE-ZENER	19.5	166.5
ZD295	DIODE-ZENER	242.0	92.7
ZD520	DIODE-ZENER	217.0	106.5
ZD521	DIODE-ZENER	173.8	163.8
ZD522	DIODE-ZENER	210.1	100.4
ZD523	DIODE-ZENER	220.1	100.4
ZD524	DIODE-ZENER	159.9	150.0
ZD600	DIODE-ZENER	140.8	12.0
IC			
IC201	IC-MICROCONTROLLER	26.0	28.5
IC280	IC-EEPROM	34.5	61.5
IC301	IC-VERTICAL DEF.	154.9	103.0
IC401	IC-HOR./VER.PROCESSO	25.8	157.7
IC501	IC-PWM CONTROLLER	163.2	160.5
IC601	IC-HYBRID	148.4	17.5
IC603	IC-OP AMP	41.9	106.4
IC604	PHOTO-COUPLER	183.0	82.2
IC605	RU : TO-92,3,-36V(T) SIMPLE	188.5	100.0
IC650	IC-POS/ADJUST REG.	50.5	75.1
IC651	ST : TO-220,4,-5V	40.2	99.6
TRANSISTOR			
Q250	ST : 0.25W,60V,50V,5V,0.15A,	41.0	191.0
Q251	TR-SMALL SIGNAL	41.0	196.0
Q301	TR-SMALL SIGNAL	11.5	93.7
Q302	TR-SMALL SIGNAL	11.5	88.7
Q303	ST : 0.25W,60V,50V,5V,0.15A,	212.1	89.5
Q401	FET-SILICON	49.1	192.9
Q402	FET-SILICON	84.8	155.9
Q403	TR-POWER	130.0	239.9
Q409	ST : 0.25W,60V,50V,5V,0.15A,	21.3	189.6
Q410	ST : 0.25W,60V,50V,5V,0.15A,	27.5	189.6
Q411	ST : 0.25W,60V,50V,5V,0.15A,	14.8	189.6
Q412	ST : 0.25W,60V,50V,5V,0.15A,	8.5	189.6
Q413	TR-SMALL SIGNAL	16.6	102.7
Q414	TR-SMALL SIGNAL	16.6	111.7
Q422	FET-SILICON	43.6	213.0
Q423	FET-SILICON	58.6	213.0
Q424	FET-SILICON	28.6	213.0
Q425	FET-SILICON	13.6	213.0
Q452	ST : 0.25W,60V,50V,5V,0.15A,	71.0	157.5
Q453	TR-SMALL SIGNAL	74.0	160.5
Q502	TR-SMALL SIGNAL	148.5	132.5
Q503	TR-SMALL SIGNAL	153.4	132.5
Q516	FET-SILICON	142.8	195.3
Q520	TR-SMALL SIGNAL	205.9	103.5
Q521	TR-SMALL SIGNAL	150.8	171.0
Q522	TR-SMALL SIGNAL	162.0	173.5
Q523	TR-SMALL SIGNAL	141.6	149.1
Q540	TR-SMALL SIGNAL	159.0	200.5
Q590	FET-SILICON	185.9	142.9
Q601	TR-SMALL SIGNAL	189.0	81.7
Q604	TR-SMALL SIGNAL	58.2	83.0
Q608	ST : 0.25W,60V,50V,5V,0.15A,	179.7	96.8
Q609	TR-POWER	28.2	82.8
Q610	ST : 0.25W,60V,50V,5V,0.15A,	19.3	83.4

10-2-2 PU19IS Video PCB Layout



Loc. No.	Description	X	Y
DIODE			
D141	DIODE-SWITCHING	95.0	78.3
D142	DIODE-SWITCHING	97.4	80.2
DB01	DIODE-SWITCHING	108.3	17.8
DB02	DIODE-SWITCHING	117.3	15.2
DB03	DIODE-SWITCHING	14.0	88.0
DB04	DIODE-SWITCHING	4.5	85.5
DB05	DIODE-SWITCHING	36.8	85.1
DG01	DIODE-SWITCHING	109.3	12.8
DG02	DIODE-SWITCHING	117.3	10.3
DG03	DIODE-SWITCHING	17.0	58.7
DG04	DIODE-SWITCHING	28.6	55.0
DG05	DIODE-SWITCHING	14.0	78.3
DR01	DIODE-SWITCHING	109.3	7.8
DR02	DIODE-SWITCHING	117.3	5.3
DR03	DIODE-SWITCHING	13.0	91.0
DR04	DIODE-SWITCHING	12.0	94.0
DR05	DIODE-SWITCHING	36.8	93.0
ZD101	DIODE-ZENER	48.0	26.5
ZD102	DIODE-ZENER	50.5	26.5
ZD104	DIODE-ZENER	95.5	84.8
IC			
IC101	IC-VIDEO AMP	90.9	20.4
IC102	IC-VIDEO AMP	81.0	42.5
IC103	IC-OSD PROCESSOR	117.5	81.4
IC104	IC-BIAS CLAMP	84.1	78.7
IC105	IC HYBRID	5.9	58.6
IC106	IC-POS1.ADJUST REG.	67.4	5.2
TRANSISTOR			
Q101	TR-SMALL SIGNAL	60.5	12.0

10-2-3 PU19IS BNC PCB Layout



Loc. No.	Description	X	Y
DIODE			
D150	DIODE-RECTIFIER	11.00	22.00
DB51	ST : 75V,150MA,1V,10MA,	42.85	29.45
DB52	ST : 75V,150MA,1V,10MA,	50.85	27.10
DB53	ST : 75V,150MA,1V,10MA,	92.31	37.41
DB54	ST : 75V,150MA,1V,10MA,	89.20	26.10
DG51	ST : 75V,150MA,1V,10MA,	39.00	32.15
DG52	ST : 75V,150MA,1V,10MA,	28.90	28.50
DG53	ST : 75V,150MA,1V,10MA,	67.80	36.95
DG54	ST : 75V,150MA,1V,10MA,	65.05	28.95
DR51	ST : 75V,150MA,1V,10MA,	33.00	25.65
DR52	ST : 75V,150MA,1V,10MA,	25.00	23.30
DR53	ST : 75V,150MA,1V,10MA,	53.05	37.60
DR54	ST : 75V,150MA,1V,10MA,	57.65	28.95
D_SUB	CONNECTOR-DSUB	39.00	13.50
ZD151	DIODE-ZENER	12.15	6.80
ZD152	DIODE-ZENER	91.60	19.80
ZD153	DIODE-ZENER	91.60	22.40
ZD154	DIODE-ZENER	14.55	6.80
ZD155	DIODE-ZENER	17.00	6.80
ZD156	DIODE-ZENER	9.75	6.80
ZD157	DIODE-ZENER	94.95	25.70
ZD158	DIODE-ZENER	74.90	26.80
ZD159	DIODE-ZENER	70.50	21.25
ZD160	DIODE-ZENER	36.50	50.50
ZD161	DIODE-ZENER	36.50	54.50
ZD162	DIODE-ZENER	12.75	69.00
ZD163	DIODE-ZENER	31.35	69.00
IC			
IC1	IC-VIDEO SWITCH	52.95	55.45
IC3	IC-CMOS LOGIC	88.10	60.00

Memo