

Integrated Circuits

The following list shows details of the integrated circuits used on each circuit board.

If you are viewing this on-screen, click on **DATA** in the list below, to open up the data sheet for that particular IC. These data sheets are included by kind permission of their respective manufacturers.

Many manufacturers offer free data sheets from their websites, so please make sure that you contact them if you need further information. They will also make sure that their data sheets are regularly updated, whereas these presented here are offered as a guide only and may be out of date by the time I've had a cup of tea and caught the bus home.

055-108-00 REV A, MIC METER BOARD

325-012-03	IC, 8 BIT SHIFT REGISTERS WITH OUTPUT LATCHES SMD	74HC595	U101-103 U201-203 U301-303 U401-403 U501-503 U601-603
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055-109-00 REV A, OUTPUT METER BOARD

325-007-03	IC, HEX, SCH TRIGGER, INV, SMD	74HC14	U1
325-012-03	IC, 8 BIT SHIFT REGISTERS WITH OUTPUT LATCHES SMD	74HC595	U101-103 U201-203 U301-303 U401-403 U501-503 U601-603 U701-703 U801-802

055-110-00 REV A, ANALOG I/O

320-012-00	I.C. LINEAR SMD	NJM4560M	U1-6
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055-112-00 REV C, DCA CARD

320-011-00	I.C. LINEAR	NJM 4560	U52-53 U56-57
320-012-00	I.C. LINEAR SMD	NJM4560M	U1 U3 U6-7 U9-10 U14 U17 U19 U21-22 U24 U26 U29 U33 U35 U37 U39-40 U44 U48 U50 U54 U58 U61 U65 U67 U5 U16 U28 U47 U60 U12 U31 U63
325-004-03	IC, QUAD, NOR, SMD	74HC02	U5 U16 U28 U47 U60
325-012-03	IC, SMD, 8 BIT SHIFT REGISTER W/ OUTPUT LATCHES	74HC595	U12 U31 U63
325-024-03	IC, CMOS SWITCH, SMD	74HC4316	U2 U4 U8 U11 U13 U15 U18 U20 U25 U27 U30 U32 U34 U41 U43 U45 U49 U55 U59 U62 U64
DATA 329-019-03	IC, DGTL ATTENUATOR	CS3310	U23 U36 U38 U51 U66

055-113-00 REV B, CODEC CARD

320-012-00	IC LINEAR SMD	NJM4560M	U1-2 U6-7 U51 U101-102 U151 U201-202 U251 U301-302 U351 U401-402 U451 U501-502 U551 U601-602 U651 U701-702 U751 U801-802 U851 U901-902 U951 U1001-1002 U1051 U1101-1102 U1151 U5
DATA 325-053-03	IC, SMD, SCH TRIGGER HEX INV.	74AC14	U5
DATA 329-045-03	D/A CONV SM	CS4390	U52 U152 U252 U352 U452 U552 U652 U752 U852 U952 U1052 U1152
DATA 329-046-03	A/D CONV SM	CS5360	U3-4 U103 U203 U303 U403 U503 U603 U703 U803 U903 U1003 U1103

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055-114-00 REV C, DSP CARD

	080-058-00	Programmed EPROM		
	315-004-00	OSCILLATOR	7.3728 MHZ	Y1
	315-012-00	OSC SMT 22.5792MHZ	22.5792 MHZ	Y2
DATA	324-004-03	HIGH SPEED CMOS RS-232 DRIVERS/RECEIVERS	ADM232A	U48
	325-035-03	IC, SMD, HEX INVERTER	74AC04	U110
	325-037-03	IC, SMD, DCDR/DEMUX	74AC138	U28-29 U40-42
	325-038-03	IC, QUAD, OR, SMD	74AC32	U49 U53 U55 U59 U62 U65 U68 U71 U74 U77 U80 U83
	325-039-03	IC, SMD, DUAL D F/F	74AC74	U107
	325-042-03	IC, SMD, OCTAL D-TYPE FF	74AC574	U26 U30-35 U39 U44 U47 U50-51 U54 U56-58 U60-61 U63-64 U66-67 U69-70 U72-73 U75-76 U78-79 U81-82 U84-85 U87-88 U90-91 U93-94 U96-97 U99-100 U102-103 U105-106 U108-109 U111-112 U114-115 U117
	325-043-03	OCTAL 3-STATE NONINVERTING BUFFER	74AC241A	U46 U86 U89 U92 U95 U98
	325-053-03	IC, SMD, SCH TRIGGER HEX INV.	74AC14	U27 U43 U52 U101 U104
	325-054-03	IC, SMD, OCTAL, D-TYP, TRANS LATCH	74AC573	U36
	* 335-001-00	IC, SMD, DIGITAL SIGNAL PROPRIETARY PROCESSOR		U1-24 NOTE: This has been changed to 335-011-00
DATA	335-002-00	IC, SMD, DIGITAL SIGNAL PROCESSOR	ADSP-2181	U25
DATA	335-003-00	IC, SMD, U/P SUPERVISORY CIRCUIT	ADM705	U37
	335-004-00	IC, SMD, ASYNCHRONOUS COMMUNICATIONS	TL16C452	U45

055-115-00 REV E, DIGITAL I/O

	080-066-00	PIC PRGMD 115PCB D8		U3
	315-010-00	OSCILLATOR	16 MHZ	X3
	315-015-00	CRYSTAL, SMD	20MHZ	X1
	325-012-03	IC, SMD, 8 BIT SHIFT REGISTER W/ OUTPUT LATCHES	74HC595	U1-2
DATA	325-027-03	CMOS 74HC74A DUAL D FLPL	74HC74A	U7
DATA	325-033-03	IC, SMD, EIA RS-485 TRANSCEIVER	ADM1485	U4-6 U15
DATA	329-021-03	TRANSMITTER CS8402A	CS8402A	U13
DATA	329-022-03	RECEIVER CS8412	CS8412	U19
DATA	329-023-03	IC, CONVERTER, SMT	AD1890	U12

055-119-00 REV B, TAPE I/O

	080-067-00	PIC PRGMD 119PCB D8 PIC16C54S		U4
	311-005-00	X-SISTOR NPN SMD	IMBTA06	Q1
	315-015-00	CRYSTAL, SMD	20MHZ	Y1
	320-012-00	I.C. LINEAR SMD	NJM4560M	U1-2 U51 U101-102 U151 U201-202 U251 U301-302 U351
DATA	325-053-03	IC,SMD,SCH TRIG HEX INV.	74AC14	U5
DATA	329-045-03	D/A CONV SM	CS4390	U52 U152 U252 U352
DATA	329-046-03	A/D CONV SM	CS5360	U3 U103 U203 U303

055-120-00 REV A, MIC/LINE CONTROL SURFACE

304-036-00	LED , TOWER 2MM	RED	D1308 D1408 D1508 D1608 D1708 D1808
320-006-00	I.C. LINEAR SMD	NJM 2068	U101-102 U201 U301-302 U401 U501-502 U601 U701-702 U801 U901-902 U1001 U1101-1102 U1201
320-012-00	I.C. LINEAR SMD	NJM4560M	U8
321-003-00	I.C. LINEAR POS 3 TERM VOLTAGE REGULATOR	LM 7805	U1
325-003-03	IC, ANALOG MUX, 8 CH SMD	4051B	U4-6
325-006-03	IC, DCDR/DEMUX SMD	74HC138	U3
325-012-03	IC, 8 BIT SHIFT REGISTERS WITH OUTPUT LATCHES SMD	74HC595	U1301-1303 U1401-1403 U1501-1503 U1601-1603 U1701-1703 U1801-1803 U1901-1903 U2001-2003 U2101-2103 U2201-2203 U2301-2303 U2401-2403
325-025-03	IC, 8 BIT SHIFT REGISTER WITH INPUT LATCHES SMD	74HC597	U1304 U1404 U1504 U1604 U1704 U1804 U1904 U2004 U2104 U2204 U2304 U2404
325-048-03	IC, SMD, 12-STAGE BINARY RIPPLE COUNTER	74HC4040	U7
325-053-03	IC, SMD, SCH TRIGGER HEX INV.	74AC14	U2

055-121-00 REV A, LINE CONTROL SURFACE

320-012-00	IC LINEAR SMD	NJM4560M	U1 U9 U101 U201 U301 U401 U501 U601 U701 U801 U901 U1001 U1101 U1201
321-003-00	IC LINEAR POS 3 TERM VOLTAGE REGULATOR	LM 7805	U3
325-003-03	IC, ANALOG MUX, 8 CH SMD	4051B	U5-7 U10
325-006-03	IC, DCDR/DEMUX SMD	74HC138	U4
325-012-03	IC, 8 BIT SHIFT REGISTERS WITH OUTPUT LATCHES, SMD	74HC595	U1301-1303 U1401-1403 U1501-1503 U1601-1603 U1701-1703 U1801-1803 U1901-1903 U2001-2003 U2101-2103 U2201-2203 U2301-2303 U2401-2403 U2613-2617
325-025-03	IC, 8 BIT SHIFT REGISTER WITH INPUT LATCHES, SMD	74HC597	U1304 U1404 U1504 U1604 U1704 U1804 U1904 U2004 U2104 U2204 U2304 U2404 U2618-2620
325-048-03	IC, SMD, 12-STAGE BINARY RIPPLE COUNTER	74HC4040	U8
325-053-03	IC, SMD, SCH TRIGGER HEX INV.	74AC14	U2

055-122-00 REV A, OUTPUT CONTROL SURFACE

320-004-00	IC LINEAR SMD	NJM4560	U65
321-003-00	IC LINEAR POS 3 TERM VOLTAGE REGULATOR	LM 7805	U59
325-003-03	IC, ANALOG MUX, 8 CH SMD	4051B	U61-62
325-006-03	IC, DCDR/DEMUX SMD	74HC138	U60
325-007-03	IC, HEX, SCH TRIGGER, INV, SMD	74HC14	U51
325-012-03	IC, 8 BIT SHIFT REGISTERS WITH OUTPUT LATCHES, SMD	74HC595	U1-25 U39-50
325-025-03	IC, 8 BIT SHIFT REGISTER WITH INPUT LATCHES, SMD	74HC597	U26-38
325-048-03	IC, SMD, 12-STAGE BINARY RIPPLE COUNTER	74HC4040	U64

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055-123-00 REV E, LINEAR POWER SUPPLY

321-008-00	I.C. ADJ POS 3 TERM VOLTAGE REGULATOR	LM317T	U2
321-009-00	I.C. ADJ NEG 3 TERM VOLTAGE REGULATOR	LM337T	U1

055-124-00 REV A, 8-WAY FADER

320-004-00	I.C. LINEAR SMD	NJM4560	U1-2 U10 U101-102 U201-202 U301-302 U401-402 U501-502 U601-602 U701-702 U904
321-003-00	I.C. LINEAR POS 3 TERM VOLTAGE REGULATOR	LM 7805	U3
325-003-03	IC, ANALOG MUX, 8 CH SMD	4051B	U12
325-012-03	IC, 8 BIT SHIFT REGISTERS WITH OUTPUT LATCHES, SMD	74HC595	U903
325-048-03	IC, SMD, 12-STAGE BINARY RIPPLE COUNTER	74HC4040	U15
325-053-03	IC, SMD, SCH TRIGGER HEX INV.	74AC14	U4
329-015-03	IC, 8 CHANNEL DAC, SMD	AD8803	U908

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055-125-00 REV A, 9-WAY FADER

320-004-00	I.C. LINEAR SMD	NJM4560	U1-2 U10 U101-102 U201-202 U301-302 U401-402 U501-502 U601-602 U701-702 U801-802 U904
321-003-00	I.C. LINEAR POS 3 TERM VOLTAGE REGULATOR	LM 7805	U3
325-003-03	IC, ANALOG MUX, 8 CHL SMD	4051B	U7-8
325-006-03	IC, DCDR/DEMUX SMD	74HC138	U6
325-012-03	IC, 8 BIT SHIFT REGISTERS WITH OUTPUT LATCHES, SMD	74HC595	U903 U915
325-048-03	IC, SMD, 12-STAGE BINARY RIPPLE COUNTER	74HC4040	U9
325-053-03	IC, SMD, SCH TRIGGER HEX INV	74AC14	U4
329-016-03	IC, 12 CHANNEL DAC, SMD	AD8804	U914

DATA

055-136-00 REV A, BRAIN BOARD

	080-057-00	Programed Eprom		U38
	311-005-00	X-SISTOR NPN SMD	IMBTA06	Q1
	315-004-00	OSCILLATOR	7.3728 MHZ	X3
	315-006-00	OSCILLATOR	20 MHZ	X1
	315-010-00	OSCILLATOR	16 MHZ	X2
	320-004-00	I.C. LINEAR SMD	NJM4560	U3 U7-8
	321-003-00	I.C. LINEAR POS 3 TERM VOLTAGE REGULATOR	LM 7805	U17
DATA	324-004-03	HIGH SPEED CMOS RS-232 DRIVERS/RECEIVERS	ADM232A	U12
	325-010-03	IC, OCTAL, D-TYP, TRANS LATCH,	74HC574	U2 U4-6 U13 U15 U33 U35
	325-020-03	IC, HEX, INV, SMD	74HC04	U52
	325-037-03	IC, SMD, DCDR/DEMUX	74AC138	U28-29
	325-052-03	IC, OCTAL BUFFER/LINE DRIVER, 3 STATE OUTPUTS, SMD	74HC541	U1 U18
	329-040-03	IC, SERIAL NUMBER	DS2401	U16
DATA	329-041-03	IC, 10 BIT ADC	AD7812	U11
DATA	335-002-00	IC, SMD, DIGITAL SIGNAL PROCESSOR	ADSP-2181	U25
DATA	335-003-00	IC, SMD, U/P SUPERVISORY CIRCUIT	ADM705	U10
	335-004-00	IC, SMD, ASYNCHRONOUS COMMUNICATIONS	TL16C452	U9 U14 U34

055-164-00 REV C, CLOCK CARD

	080-068-00	Programmed EPROM PIC		U5
	315-012-00	OSCILLATOR	22.5792 MHZ	Y1
	315-014-00	OSCILLATOR	24.576 MHZ	Y2
	315-015-00	CRYSTAL, SMD	20MHZ	Y3
	325-035-03	IC, SMD, HEX INVERTER	74AC04	U3
	325-036-03	IC, SMD, 12-STAGE BINARY RIPPLE COUNTER	74AC4040	U1
	325-039-03	IC, SMD, DUAL D F/F	74AC74	U4
	325-041-03	IC, SMD, OCTAL BUFFER/LINE DRIVER, 3 STATE OUTPUTS	74AC541	U6-9
	325-042-03	IC, SMD, OCTAL D-TYPE FF	74AC574	U2