



Otari Proprietary Integrated Circuits

Part No.	Description	Function
I-0050	Line out Amp	This is a hybrid Amp for line output. This IC is no longer used.
I-0125	Line out Amp	This IC is a Low Cost version of I-0050.
I-0175	Line out Amp	I-0175 is an improved version of I-0125. The back of I-0175 should be mounted on the PCB so that heat can be released into the PCB. The leads are offset for horizontal mounting.
I-0178	Line out Amp	The transistor power of I-0178 has been improved, and the slew rate has been increased compared with the I-0125. The I-0178 has been replaced by the I-0178B
I-0051	Analog SW NN	This IC consists of two N type analog FET switch circuits.
I-0052	Analog SW PP	This IC consists of two P type analog FET switch circuits.
I-0053	Analog SW NP	This IC consists of one N type analog FET switch and one P type analog FET switch.
I-0131	Analog SW NN	The basic circuit is the same as I-0051.
I-0132	Analog SW PP	The basic circuit is the same as I-0052.
I-0133	Analog SW NP	The basic circuit is the same as I-0053.
I-0181	Analog SW NN	The basic circuit is the same as I-0051.
I-0182	Analog SW PP	The basic circuit is the same as I-0052.
I-0183	Analog SW NP	The basic circuit is the same as I-0053.
I-0191	Analog SW NN	The basic circuit is the same as I-0051.
I-0192	Analog SW PP	The basic circuit is the same as I-0052.
I-0193	Analog SW NP	The basic circuit is the same as I-0053.

Part No.	Description	Function
I-0012	Universal controller	This IC is a C-MOS 4 bit micro computer. This IC has 4 different functions depending on the setting of the Mode Select line. <ol style="list-style-type: none"> 1. Deck Controller 2. Tape Timer 3. Tacho Controller 4. Preset Controller
I-0028	Input protective IC	This IC is a C-MOS protective IC. It includes 4 circuits which are composed of an input resistor, pull up resistor and latch-up protective diodes.
I-0055	Time Code Reader	A C-MOS Gate Array SMPTE/EBU Time Code Reader. It consists of 1,500 NAND gates. This IC can read SMPTE as well as EBU Time Code. The outputs are available as serial and parallel data. The Time Code reader can read Time Code from tape at speeds ranging from 1/100 to 100 times the recorded speed.
I-0056	Mode Controller	This is a C-MOS Gate Array developed to control Audio channel mode switching. The functions provided by this IC are: <ol style="list-style-type: none"> 1. Gapless Recording 2. Spot Erase 3. Back Erase 4. Bias and Relay Commands 5. Add channel into record etc...
I-0076	3 Phase Power Amp	This IC is a 3 phase Motor Drive Amplifier for Otari's capstan motors.
I-0112	Up/Down Counter	This IC is an Up/Down Counter which incorporates a direction detection circuit. The IC is designed to function from a single 5 VDC power supply, and can be directly interfaced to TTL circuitry.

IC Usage

IC Number	Used in:
I-0012	MX5050MK3-8, MK3-4, MK3-2, BII, B-QII MTR-10II/12II, BTR-10J, MTR-90II, DP-1700, T-520
I-0028	MTR-10II/12II, BTR-10J, MTR-20, MTR-100, T-520, VL-110
I-0050	No longer in use.
I-0051	MX-70, MX-80, MTR-20, BTR-5
I-0053	MTR-10II/12II, BTR-20, MX-70, BTR-10J, BTR-5
I-0055	EC-101, EC-102, EC-103, EC-104, DTR-900, MTR-20, MTR-100, BTR-5
I-0056	MX-70, MX-80, MTR-20 including Time Code PCBs, BTR-10J
I-0125	MX-70 (No longer in use.)
I-0131	MTR-20, BTR-10J
I-0132	MTR-20
I-0133	BTR-10J
I-0175	MTR-100
I-0178	MX-80, MX-70, MX-55N-M, MX-55T-M, MTR-20, MTR-10II, MTR-12II, BTR-5, DTR-900, CTM-10, ZA-55H
I-0181	MX-80, MTR-100
I-0183	MX-80, MTR-100
I-0193	MX-80, MTR-100

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