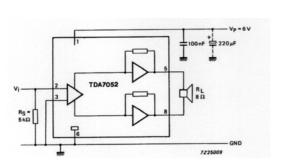
	Device	Page		Device	Page
8	Z8 series	97	2003	TDA2003H	92
12	PIC12 series	99	2803	ULN2803A	93
16	PIC16 series	99	2901	LM2901N	93
17	PIC17 series	99	3914	LM3914N	94
27	27C256	97	3915	LM3915N	94
34	M34-2	96	3916	LM3916N	94
66	M66T	92	4000	4000 series	98
80	Z80 series	97	4008	K6X4008C1F	97
89	AT89C series	99	5534	NE5534	94
081	TL081C	94	7000	TDA7000	93
293	L293DNE	96	7052	TDA7052	92
232	MAX232CPE	95	8008	K6X8008T2B	97
232	MAX232CSE	95	7400	7400 series	98
311	LM311N	93	74HC	74HC series	98
358	LM358	93	27128	M27128A	97
380	LM380	92	55257	TC55257DPL-70L	97
414	See TA7642	92	62256	See TC55257	97
484	See TA7642	92	75176	DS75176BN	93
488	MAX485ECPA	96	PIC	12 ,16, 17, 18	99
488	MAX488CPA	95	PICAXE		100
555	NE555	94			
	CMOS7555	94			
690	MAX690A	95			
741	UA741	94			
747	747	94			
807	MAX807LCPE	95			
807 820	MAX807LCWE TBA820M	95 92			
1210	DS1210	96			
1302	DS1302	96			
1305	DS1305	96			

Audio **TBA820** ST **TDA7052 NXP**



A 1W mono audio amplifier in an 8 pin DIL package for use in batteryfed portable audio equipment. Supply voltage 3-18V. Low power consumption.

Туре	Tube	Order	Price ea	ach	
	qty	code	1-24	25-99	100+
TDA7052	50	560-037	£0.45	£0.40	£0.35

LM380 **National**

A 2.5W mono audio amplifier in an 14 pin DIL package for use in consumer applications. Supply voltage 10-22V. Low distortion and high input impedance.



Туре	Order	Price eacl	h	
	code	1-24	25-99	100+
LM380	560-049	£0.69	£0.57	£0.49

TDA2003H

The TDA2003H requires few external components to produce an amplifier up to 12W into loads as low as 1.6R.It can also be used in bridging mode, delivering 18W into 4R. With an operating voltage range of 8 to 18V, it can be used in many applications including in-car stereos and radios. No electrical insulation is required beween the mounting tab and the heatsink. Full data sheet availavle on our web site.

Technical specification

Operating voltage	8 to 18V
Output current	up to 3.5A
Power output	12W into 1.6R

Type Order Price each

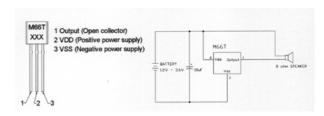
code 1-24 25-99 100+ TDA2003H 560-025 £1.15 £0.95 £0.85 A monolithic IC in an 8 pin DIL package for use as a low frequency class B power amplifier with a wide range of supply voltage. 1.2W into 8R 9V and 1.5W into 4R 9V



Туре	Order	Price each	1	
	code	1-24	25-99	100+
TBA820M	560-071	£0.35	£0.29	£0.24

Melody Generator

Micro M66T



Low cost melody generator IC ideal for novelty projects such as games,toys and greetings cards. Requiring only 3V and a small 8R loudspeaker

гуре	Order	Price e	Price each	
	code	1-24	25-99	100+
M66T id like to teach the world	560-038	£0.29	£0.24	£0.21

AM radio receiver TA7642

The TA7642 is a 10-transistor TRF receiver in a 3 pin T092 plastic package. The IC contains a RF amplifier, detector and A.G.C. circuit and requires only a few components to complete a high quality AM radio receiver. RoHS compliant



Technical specification

ST

Supply voltage	1.1 to 1.6V
Supply current	0.3mA

Input frequency 0.15 to 3.0MHz

Power gain 72dB

Type Order Price each

code 1-24 25-99 100+

TA7642 (replaces ZN414Z) 560-006 £0.44 £0.38 £0.34

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TDA7000 FM Receiver

Phillips

Darlington Drivers

Octal darlington driver

The TDA7000 only requires a few external components to produce a working FM radio. Alignment is easy as only one coil is required. the IC includes the RF input stage, mixer, local oscillator, IF amplifier, phase demodulator, mute detector and switch. Operating voltage 2.7V to 10V. Full data sheet available on our website.

Туре	Order	Price each	1	
	code	1-24	25-99	100+
TDA7000	560-048	£1.49	£1.29	£0.99

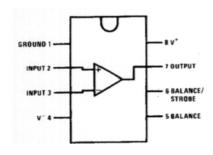
The ULN2803A consists of 8 NPN darlington pairs to provide high voltage outputs with common cathode clamp diodes for switching inductive loads. Applications include lamp drivers, display drivers, relay drivers etc.

ST/Toshiba

Туре	Order	Price each			
	code	1-24	25-99	100-499	500+
ULN2803A DIL	560-014	£0.35	£0.28	£0.21	
ULN2803AFW SO18	560-072	£0.37	£0.34	£0.30	£0.27

Comparators

Voltage comparator LM311

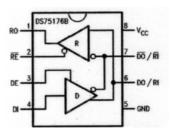


A high performance voltage comparator featuring low input current, direct output interface with TTL loads. Also capable of driving lamp or relay loads at voltages up to 40V and 50mA. Supplied in an 8 pin Dil package.

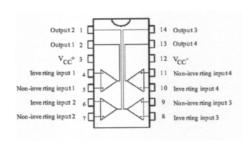
Туре	Order	Price eac	:h		
	code	1-24	25-99	100-49	9 500+
LM311 comparator	560-017	7 £0.19	£0.16	£0.13	£0.10

Differential Bus Transceiver

DS75176BN National S



ST LM2901N



A low power quad voltage comparator in a 14 pin DIL package. Wide single supply voltage range or dual supplies +2V to + 36V or +/- 1V to +/-18V. Very low supply current 1.1mA independent of supply voltage. Low input bias current 25nA typical

Туре	Order	Price each			
	code	1-24	25-99	100-499	500+
LM2901N	560-030	£0.15	£0.12	£0.10	£0.08

A differential bus transceiver designed for data transmission as specified by the Electronic Industries Association. Supplied in an 8 pin DIL package. E.I.A. standards RS-422A and RS-485.

Туре	Order	Price each			
	code	1-24	25-99	100-499	500+
DS75176BN	560-013	£0.65	£0.59	£0.49	£0.44

Operational Amplifiers

LM358N ST

A low power operational amplifier supplied in an 8 pin DIL package that can be used with single power supplies. RoHS compliant



Type	Order	Price each			
	code	1-24	25-99	100-499	500+
LM358N	560-070	£0.17	£0.15	£0.13	£0.11

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Operational amplifier UA741

1 2 3 4

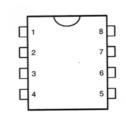
ST

Single timmer NE555

Timers

ST

An 8 pin DIL package timer that can be used to provide the basis for one shot or astable timing operations with the addition of a few external components.



+70 deg C

Technical specification

Type

Supply voltage	4.5 to 15V
Max power dissipation	600mW
Temperature range	0 deg C to

Order Price each

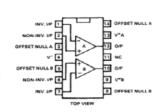
	code	1-24	25-99	100-499	500+
NE555 timer	560-003	£0.15	£0.12	£0.10	£0.08
NE555 timer SMD	560-065	£0.12	£0.075	£0.07	£0.062

The industry standard general purpose operational amplifier, the 741 offers internal frequency compensation and short circuit protection. Supplied in a 8 pin DIL plastic package.

туре	Order	Price each	1	
	code	1-24	25-99	100+
UA741 op amp	560-015	£0.15	£0.12	£0.09

Dual operational amplifier 747

The 747 operational amplifier consists of two 741's in one package. The two amplifiers share a common bias network and power supply connections. Channel separation is 98dB at 1KHz. RoHS compliant.



1 - Offset null 1

5 - Offset null 2

4 - Vcc

7 - Vcc

8 - N.C

6 - Output

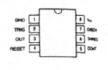
2 - Inverting input

3 - Non-inverting input

Туре	Order	Price ea	ch		
	code	1-24	25-99	100-49	9 500+
747 op amp	560-063	3 £0.45	£0.39	£0.36	£0.33

Low power single timer 555

Low power version of the NE555 timer offering a much lower power consumption (typically 1mW at Vcc=5v). Voltage range 2 to 18v.Supplied in a standard 8 pin dil package. In most standard applications it will replace the NE555. RoHS



Туре	Order	Price each			
	code	1-24	25-99	100-499	500+
TS555CN low power	560-062	£0.19	£0.17	£0.15	£0.13

Operational amplifier NE5534

NXP

A single high performance low noise operational amplifier in an 8 pin DIL plastic package.Internal compensation is provided for a closed loop gain which is equal to or greater than three.External frequency compensation may be used to optimise the frequency response for various applications. Input noise voltage 3.5nV/Hz.



Туре	Order	Price each		
	code	1-24	25-99	100
NE5534N	560-005	£0.39	£0.33	£0.27

Bargraph displays

National

A range of 18 pin DIL bargraph displays that have two modes of operation. In bar mode all LEDs indicating below the input voltage are on. In dot mode the IC will sequentially light 10 LEDs when a gradually increasing voltage is applied to pin 5. As there is a slight overlap at no time are all the LEDs off. The LED current can be set between 2mA and 30mA with a brightness control.

18 LED NO. 2 DIVIDER SIGNAL INPUT DIVIDER (HIGH END) REFERENCE OUTPUT LED NO. 9 REFERENCE ADJUST LED NO 18 MODE SELECT

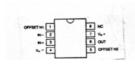
Supply voltage between 3 and 18V, the ICs are stackable so displays with up to 100 or more LEDs are possible. The LM3914 produces linear steps, the

LM3915 produces -3dB steps and the LM3916 produces a Vu scale. (-10dB, -7dB, -5dB, -3dB, -1dB, 0dB,1dB and 3dB). RoHS compliant.

Туре	Order	Price each		
	code	1-24	25-99	100+
LM3914N	560-054	£1.49	£1.15	£0.89
LM3915N	560-055	£1.49	£1.15	£0.89
LM3916N	560-056	£1.49	£1.15	£0.89

Single operational Amplifier TL081C

The TL081C is a single BI FET operational amplifier housed in an 8 pin DIL package. Its special feature is the provision for offset null adjustment.



Texas

Туре	Order	Price each			
	code	1-24	25-99	100+	
TL081C	560-004	£0.37	£0.27	£0.19	

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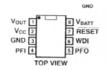
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MOBILE 07860 632 869

Microprocessor Supervisory Circuits

RS232 Drivers/Receivers

MAX690A Maxim **MAX232** Maxim



The MAX690A reduces the complexity and number of components required for power supply monitoring and battery control functions in microprocessor systems. Supplied in an 8 pin dil package.

Technical specification

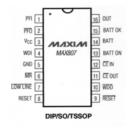
Precision supply voltage 4.65V Reset time delay 200mS Qulescent supply current 200uA Current in battery backup 50nA

Temperature range 0 to +70 deg C Type Price each

> code 1-24 25-99 100+

MAX690A 560-022 £2.95 £2.65 £2.45

MAX807 Maxim



The MAX807 reduces the complexity and number of components required for power supply monitoring and battery control functions in up systems. Supplied in an 16 pin dil package (MAX807LCPE) or in an SO package (MAX807LCWE).

Technical specification

Type

Precision supply voltage 4.675V Reset time delay 200mS Output supply current 250mA Current in battery backup 20mA

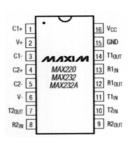
Temperature range 0 to +70 deg C

> 1-24 100+ code 25-99

Price each

MAX807LCPE (DIL) 560-043 £3.50 £3.25 £3.10 MAX807LCWE (SO) 560-035 £3.50 £3.25 £3.10

Order



A 16 pin Dil (CPE) or SO (CSE) RS232 driver/receiver ideal for use in battery powered systems, since their low-power shutdown mode reduces power dissipation to less than 5uW.

Technical specification

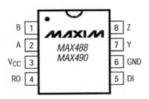
Power supply +5V No RS232 drivers/rec 2/2 Data rate 120

Type Order Price each

1-24 code 25-99 100 MAX232CPE 560-018 £1.29 £0.99 £0.79 MAX232CSE+ 560-034 £1.29 £0.79 £0.99

RS-485/RS-422 Transceivers

MAX488 Maxim



The MAX488CPA+ is a low power transceiver for RS-485 and RS422 communication in an 8 pin DIL package. It features reduced slew-rate drivers that minimise EMI and reduce reflections caused by improperly terminated cables, thus allowing error-free data transmissions up to 250kbps.Can operate from a single 5V supply and draws between 120uA and 500uA of supply current when unloaded or fully loaded with disabled drivers. RoHS compliant

Type Order Price each

code 1-24 25-99 100+ MAX488CPA+ 560-029 £1.49 £1.29 £1.04

Maxim DS1305 Maxim MAX485E

The MAX485E is low-power transceiver for RS-485 and RS-422 communications in harsh environments. Each driver output and receiver input is protected against ±15kV electro-static discharge (ESD) shocks, without latchup. These parts contain one driver and one receiver. The driver slew rate of the MAX485E is not limited, allowing it to transmit up to 2.5Mbps.



The transceiver draws as little as 120µA supply current when unloaded or when fully loaded with disabled drivers. The MAX485E operates from a single +5V supply.

Drivers are short-circuit current limited, and are protected against excessive power dissipation by thermal shutdown circuitry that places their outputs into a high-impedance state. The receiver input has a fail-safe feature that guarantees a logic-high output if the input is open circuit.

Туре	Order	Price each	า	
	code	1-24	25-99	100+
MAX485ECPA	560-053	£1.89	£1.49	£1.19

Stepper motor drive IC

L293D **Texas**

The L293D is a monolithic IC offering high voltage, high current and 4 channel driver. Supplied in a DIL 16 pin package. RoHS compliant



Туре	Order	Price ea	ch	
	code	1-24	25-99	100+
L293DNE	560-046	6 £1.50	£1.25	£0.99

Timekeeping

DS1302 **Dallas**

An 8 pin DIL real time clock that counts seconds, minutes, hours, date of the month, month, day of the week and year with leap year compensation valid up to 2100. Access is via a simple 3 wire serial interface. 8 x 31 RAM, TTL compatible, dual power supply pins for primary backup power supplies, trickle charge capability.



Туре	Order	Price eacl	h	
	code	1-24	25-99	100+
DS1302	560-050	£1.49	£1.19	£0.99



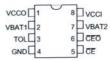
The DS1305 serial alarm real-time clock provides a full binary coded decimal (BCD) clock calendar that is accessed by a simple serial interface. The clock/calendar provides seconds, minutes, hours, day, date, month, and year information. The end of the month date is automatically adjusted for months with fewer than 31 days, including corrections for leap year. The clock operates in either the 24-hour or 12-hour format with AM/PM indicator. In addition, 96 bytes of NV RAM are provided for data storage. An interface logic power-supply input pin (VCCIF) allows the DS1305 to drive SDO and PF-bar pins to a level that is compatible with the interface logic. This allows an easy interface to 3V logic in mixed supply systems.

The DS1305 offers dual-power supplies as well as a battery input pin. The dual power supplies support a programmable trickle charge circuit that allows a rechargeable energy source (such as a super cap or rechargeable battery) to be used for a backup supply. The VBAT pin allows the device to be backed up by a non-rechargeable battery. The DS1305 is fully operational from 2.0V to 5.5V.

Туре	Order	Price each	1	
	code	1-24	25-99	100+
DS1305	560-052	£2.45	£2.05	£1.75

DS1210 nonvolatile controller

Dallas



The DS1210 Nonvolatile Controller Chip is a CMOS circuit which solves the application problem of converting CMOS RAM into nonvolatile memory. Incoming power is monitored for an out-of-tolerance condition. When such a condition is detected, chip enable is inhibited to accomplish write protection and the battery is switched on to supply the RAM with uninterrupted power. Special circuitry uses a low leakage CMOS process which affords precise voltage detection at extremely low battery consumption . The 8 pin DIP package keeps PC board real estate requirements to a minimum. By combining the DS1210 Nonvolatile Controller Chip with a CMOS memory and batteries, nonvolatile RAM operation can be achieved.

Гуре	Order	Price each		
	code	1-24	25-99	100+
DS1210+	560-051	£2.25	£1.99	£1.69

LED flasher

M34-2**Bowin**

new

A low voltage single output LED flashing controller designed for a 3V power supply. Flash rate 2Hz



Туре	Order	Price ead	ch	
	code	1-24	25-99	100+
M34-2Hz I FD flasher	560-073	3 £0.25	£0.20	£0.16

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8 Bit Microprocessors

1M x 8 bit static ram K6X8008x2B

Z80 series

Zilog

Z0842006PSC Parallel input/output controller 6MHz 40 pin

Z0847006PSC Dual asynchronous receiver/transmitter 6MHz 40 pin

Z80 CMOS series					Zilog
Z0847006PSC DART	10	560-010	£3.15	£2.85	£2.45
	qty	code	1-24	25-99	100+
Туре	Tube	Order	Price each		

Z84C0006PEC Central processing unit 6MHz 40 pin

Z84C3006PEC Counter/timer controller 6MHz 28 pin

Туре	Tube	Order	Price each		
	qty	code	1-24	25-99	100+
Z84C0006PEC CPU	10	560-008	£2.79	£2.39	£2.08
Z84C3006PEC CTC	15	560-009	£2.79	£2.39	£2.08

Z8 series Zilog

Z8018010VSC 8-bit CMOS CPU 10MHz clock in a 64 pin package



Туре	Tube	Order	Price each		
	qty	code	1-24	25-99	100+
78018010VSC CPU	20	560-026	£4 55	£4 15	£3.87

RAM

256V	statio	rom	TC55257DPL	701	Toshiba
250K	static	ram	TC5525/DPL	/- /UL/	i osnina

A low power CMOS static RAM,70ns access.256K (32Kx8).Supplied in a 28 pin package. Equivalent to HM62256ALP-70

Туре	Tube	Order	Price each
	qty	code	
TC55257DPL-70L	13	560-002	£3.29

^{*} Available until stocks are exhausted

512K x 8 bit static ram K6X4008C1F Samsung

A 512K x 8 bit low power CMOS static RAM available in a 32 pin SOP package (GF55). Power supply voltage 4.5 - 5.5V. Low data retention voltage.

Туре	Tube	Order	Price e	Price each	
	qty	code	1-24	25-99	100+
K6X4008C1F-GF55	20	560-040	£2.45	£2.15	£1.95

A 1M x 8 bit low power CMOS static RAM available in a a 44 pin TSOP package.Power supply voltage 2.7 - 3.6V.

Туре	Tube	Order	Price each		
	qty	code	1-24	25-99	100+
K6X8008T2B-TF7		560-047	£3.95	£3.60	£3.25
K6X8008T2B-TF55		560-057	£4.80	£4.50	£3.80
K6X8008C2B-UF55		560-060	£3.95	£3.75	£3.45

EPROM

M27128A ST

The M27128A is a 131,072 bit ultra violet erasable and electrically programmable read only memory. It is organised as 16,384 words by 8 bits. Supplied in a 28 pin package.

Туре	Tube	Order	Price each
	qty	code	
M27128A-2F1	13	560-012	£2.65

^{*} Available until stocks are exhausted

27C256 EPROM

ST



Technical specification

Organisation	32,76	32,768 words x 8 bits			
Access time	120n	120ns			
Supply	+5V DC program voltage +12.75V				
Package	28 pi	28 pin cerdip			
Туре	Tube	Order	Price e	ach	
	qty	code	1-24	25-99	100+
M27C256 12E1	13	560-031	£1 00	£1.70	£1.52

262,144 bits

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74HC			Туре		Type Order Price each		Function					
	Туре	Order	Price e	ach		Function		code	1-24	25-99	100+	
		code	1-24	25-99	100+		4072B*	560-120	£0.20	£0.18	£0.13	Quad 4 input OR gate
	74HC00*	560-306	£0.18	£0.14	£0.11	Quad 2-input NAND	4073B*	560-121	£0.21	£0.17	£0.14	Triple 3 input AND gt
	74HC02*	560-307	£0.18	£0.14	£0.11	Quad 2-input NOR	4075B*	560-122	£0.22	£0.18	£0.15	Triple 3 input OR gate
	74HC03*	560-308	£0.12	£0.10	£0.08	Quad 2-input NAND	4076B	560-123	£0.35	£0.29	£0.25	Quad D type flip flop
	74HC04*	560-300	£0.18	£0.14	£0.11	Hex inverter	4081B*	560-106	£0.20	£0.16	£0.12	Quad 2 input AND gt
	74HC08*	560-301	£0.18	£0.14	£0.11	Quad 2 input NAND	4082B*	560-124	£0.20	£0.16	£0.12	Dual 4 input AND gt
	74HC10*	560-309	£0.18	£0.14	£0.11	Triple 3-input NAND	4093*	560-129	£0.17	£0.13	£0.10	Dual 4 input AND gt
	74HC11*	560-310	£0.18	£0.14	£0.11	Triple 3-input AND	4511B	560-125	£0.30	£0.25	£0.20	BCD to 7 seg dec/driv
	74HC14*	560-311	£0.18	£0.14	£0.11	Hex Schmitt inverter	4518B	560-128	£0.36	£0.30	£0.26	Dual BCD up counter
	74HC20*	560-312	£0.14	£0.11	£0.09	Dual 4-input NAND	40106B	560-130	£0.22	£0.18	£0.16	Hex Schmitt trigger
	74HC27*	560-313	£0.18	£0.14	£0.11	Triple 3-input NOR						
	74HC30*	560-314	£0.18	£0.14	£0.11	8-input NAND	* DIL 14	package				
	74HC32*	560-315	£0.18	£0.14	£0.11	Quad 2-input OR	74 T	ΓL				
	74HC74*	560-316	£0.19	£0.16	£0.13	Dual D-type flip-flop	Туре	Order	Pric	e each		Function
	74HC86*	560-317	£0.19	£0.16	£0.13	Quad exclusive OR	Турс	code	1 110	c cacii		T diletion
	74HC132*	560-302	£0.22	£0.18	£0.15	Quad schmitt trigger	7400*	560-20	0 £0.2	23	Ou	ad 2 input pos
	74HC138	560-303	£0.22	£0.18	£0.15	3 to 8 decoder	7400	000 20	20.2	_0	Qui	ad 2 mpat pos
	74HC139	560-304	£0.22	£0.18	£0.15	10 to 4 priority	~ .	_				
	74HC240	560-318	£0.22	£0.19	£0.15	Octal inverter/buff	Crysta	ıls				
	74HC244	560-305	£0.25	£0.21	£0.15	Octal buffer						

*DIL 14 package

1000 07500				Туре	Order	Price each	l				
4000 CMOS				ST/TI/Fairchild		code	1-24	25-99	100+		
							32.768kHz	565-001	£0.19	£0.16	£0.14
	Туре	Order	Price e	ach		Function	2.4576MHz	565-003	£0.39	£0.35	£0.28
		code	1-24	25-99	100+		3.5795MHz	565-004	£0.19	£0.17	£0.13
	4001B*	560-101	£0.17	£0.13	£0.10	Quad 2 input NOR gate	4.0000MHz	565-005	£0.19	£0.17	£0.13
	4002B*	560-103	£0.21	£0.16	£0.12	Dual 4 input NOR gate	4.194304MHz	565-006	£0.18	£0.16	£0.13
	4007U*	560-109	£0.24	£0.19	£0.15	Dual comp. pair + inv	6MHz	565-002	£0.19	£0.17	£0.13
	4008B	560-110	£0.34	£0.29	£0.25	4-bit binary full adder	8MHz	565-007	£0.19	£0.17	£0.13
	4011B*	560-100	£0.16	£0.14	£0.10	Quad 2 input NAND ge	11.0592MHZ	565-008	£0.19	£0.16	£0.12
	4012B*	560-111	£0.22	£0.18	£0.15	Dual 4 input NAND gt	12.288MHz	565-010	£0.19	£0.17	£0.14
	4013B*	560-112	£0.20	£0.16	£0.12	Dual D type flip flop					
	4014B	560-113	£0.26	£0.22	£0.18	8-bit shift register	3 pin ceramic resonat	tors			
	4017B	560-107	£0.26	£0.20	£0.16	Decade counter	•				
	4021B	560-114	£0.22	£0.18	£0.15	8-bit shift register	A range of 3 pin ceramic res 2.5mm pitch spacing	sonators on	а		
	4023B*	560-115	£0.21	£0.17	£0.14	Triple 3 input NAND gt				5	7
	4024B*	560-116	£0.21	£0.17	£0.14	7 stage binary counter				1	1 1
	4025B*	560-117	£0.21	£0.17	£0.14	Triple 3 input NOR gt	Туре	Order	Price each	i	
	4026B	560-126	£0.29	£0.24	£0.21	Decade counter 7 seg		code	1-24	25-99	100+
	4047B*	560-118	£0.32	£0.26	£0.21	Monostable/astable	4MHz 3 pin resonator	565-100	£0.09	£0.07	£0.06
	4050B*	560-127	£0.19	£0.14	£0.12	Hex buffer	6MHz 3 pin resonator	565-101	£0.14	£0.12	£0.09
	4070B*	560-119	£0.20	£0.16	£0.12	Quad 2 input Excl OR	100MHz 3 pin resonator	565-103	£0.12	£0.10	£0.08
	4071B*	560-105	£0.20	£0.16	£0.12	Quad 2 input OR gate	20MHz 3 pin resonator	565-102	£0.14	£0.12	£0.09

ELECTRON ELECTRONICS TELEPHONE 01737 841568

FAX 01737 841608

MOBILE 07860 632 869

PIC Microcontrollers

Microchip

PIC16F

PIC12CXXX

8 pin DIP or SOIC microcontrollers having between 512 and 2048 words of program memory and between 25 and 128 bytes of user RAM. 6 i/o pins with on chip oscillator. Max frequency 4Mhz.

Туре	Tube	Order	Price eacl	h	
	qty	code	1-24	25-99	100+
PIC12C508A-04/P		560-406	£0.79	£0.67	£0.58
PIC12C671-04P		560-410	£1.28	£1.15	£1.09
PIC12C509A-04/P	60	560-418	£0.84	£0.74	£0.64

)+
70
76
68

PIC12F6XX

Flash based 8 bit microcontrollers in an 8 pin package. 35 single word instructions with a 200ns instruction cycle.

Туре	Tube	Order	Price eac	h	
	qty	code	1-24	25-99	100+
PIC12F629-I/P	60	560-420	£0.69	£0.57	£0.52
PIC12F675-I/P		560-421	£0.79	£0.71	£0.68

PIC16F87 Flash/EEPROM

Туре	Tube	Order	Price eacl	h	
	qty	code	1-24	25-99	100+
PIC16F873-04SP		560-402	£3.59	£3.15	£2.80
PIC16F874-04P		560-403	£3.10	£2.94	£2.68
PIC16F876-04SP		560-408	£3.70	£3.35	£3.20
PIC16F876A-I/SP		560-422	£2.90	£2.60	£2.20
PIC16F877-04P		560-417	£3.65	£3.25	£2.95

PIC16C5X

For many applications the PIC16C5X family of microcontrollers offers the best combination of low cost, low power and speed of operation.33 12 bit wide instructions

Туре	Tube	Order	Price eac	h	
	qty	code	1-24	25-99	100+
PIC16C54C-04/P		560-401	£0.90	£0.74	£0.64
PIC16C55A-04/P		560-404	£1.39	£1.15	£0.96
PIC16C56A-04/P		560-416	£1.10	£0.95	£0.79
PIC16C57C-04/P		560-405	£1.35	£1.20	£0.99

PIC18F

89C Micrcontr	ollers				Atmel
PIC18F8720-I/PT		560-419	£7.90	£7.20	£6.55
	qty	code	1-24	25-99	100+
Туре	Tube	Order	Price each	h	

PIC16C6X

Туре	Tube	Order	Price eac	h	
	qty	code			
PIC16C64A-20I/L		560-412	£5.29	£4.95	£4.60

Туре	Tube	Order	Price each
	qty	code	
AT89C2051-24PC		560-603	£2.75

PIC16F Flash/EEPROM

Flash/EPROM technology makes the customisation of code extremely fast and convenient.1 million data memory EEPROM erase/write cycles.14 bit wide instructions, only 35 single word instructions.

Туре	Tube	Order	Price eacl	h	
	qty	code	1-24	25-99	100+
PIC16F84A-04/P	25	560-413	£2.25	£1.95	£1.79
PIC16F627-04/P	25	560-411	£1.79	£1.49	£1.39
PIC16F628-04/P	25	560-407	£1.79	£1.48	£1.45

Full manufacturers data sheets can be downloaded from website. our www.electronelec.co.uk

For details of RoHS compliant stock visit our website at www.electronelec.co.uk

PIC programmers MegaAVR Atmel PICKIT 2 Microchip

The Pickit 2 is a low cost microcontroller starter kit from Microchip providing a quick and easy way to start development from ideas to prototype using a selected range of Flash-based microcontrollers. It supports 8, 14 and 20 pin Flash devices. The kit includes demo board, user guide and MPLAB IDE (Integrated Development Environment) software.



Туре	Order	Price each
	code	
Pickit 2	560-490	£39.00

PICAXE

The PICAXE range of microcontrollers are low cost flash memory microcontrollers with a bootstrap code and are programmed using a BASIC language commands. Ideal for education and hobbyists

Туре	Order	Price each
	code	
PICAXE08	560-500	£1.15
PICAXE08M	560-501	£1.50
PICAXE14M	560-502	£1.95
PICAXE18M	560-503	£2.00
PICAXE08 Surface mnt	560-506	£1.75

The Atmel MegaAVR high performance 8 bit flash based microcontrollers with performance approaching 1 MIPS per MHz. By using the same AVR instructions as Atmels ATtiny range easy allowing for easy migration. Self programming flash memory with boot block. 130 powerful instructions. Substantial program and data memory.

Туре	Order	Price each		
	code	1-9	10-99	100+
ATMEGA8-16PU	560-606	£1.99	£1.79	£1.69
ATMEGA8L-8PU	560-617	£1.99	£1.79	£1.69
ATMEGA16-16PU	560-607	£3.85	£3.59	£3.39
ATMEGA16-16AU	560-611	£3.59	£3.19	£2.89
ATMEGA32-16PU	560-608	£4.55	£4.20	£4.05
ATMEGA32L-8AU	560-612	£4.55	£4.20	£4.05
ATMEGA48V-10AU	560-613	£1.49	£1.39	£1.29
ATMEGA64L-8AU	560-614	£4.20	£3.75	£3.25
ATMEGA88V-10PU	560-615	£2.09	£1.95	£1.79
ATMEGA128L-8AU	560-616	£8.95	£8.20	£7.80
ATMEGA162-16PU	560-609	£3.85	£3.59	£3.39
ATMEGA8515-16PU	560-614	£2.35	£1.95	£1.80