

Электроникийн олимпиадад ашиглах электроникийн элементүүдийн жагсаалт

№	Логик функц	Загвар		Тоо ширхэг
1	Фото эсэргүүцэл			30
2	Фото транзистор			30
3	ороомог	10uГн		20
4	ороомог	1uГн		20
5	DC мотор			17
6	DC мотор	stepper motor 12v		17
7	Мотор энкодер	HW-040		17
8	реле	5V		30
9	Температур мэдрэгч	DS18B20		30
10	Соронзон мэдрэгч	A3144 Hall Effect		30
11	Индикотор	low active /4 хос/		30
12	Шулуутгагч диод	1N4007,	1A	125
13	Зенер диод	6.2V Zener, 20-50mA		166
14	Резистор	430kΩ	1A	24
15	LED улаан	улаан		100
16	LED	цэнхэр		100
17	Decoder	7447		20
18	Decoder	7448		20
19	Button	том		100
20	Түлхүүр 2 төлөвт	жижиг хар		100
21	Холбогч, суурьлуулдаг	цэнхэр		50
22	Элементийн суурь хөл	гагнах		30
23	гэрэл мэдрэгч диод	LDR		10
24	Потенциометр	10k		10
25	DIP Switch (Олон сувагтай механик унтраалга)			5
26	Потенциометр	5 kΩ		94
27	Потенциометр	10 kΩ		200
28	Потенциометр	20kΩ		98
29	Потенциометр	500Ω		94
30	Потенциометр	1kΩ		37
31	Кварц резонатор	12 MHz		7
32		5W, 1Ω		20
33	Чадлын	5W, 10Ω		20
34	Эсэргүүцэл	5W, 100Ω		20
35		5W, 1 kΩ		20
36		68 kΩ	0.25W	60
37		56 kΩ	0.25W	20
38		3.3 Ω	0.25W	70
39		4.7 kΩ	0.25W	80
40		3 kΩ	0.25W	65
41		10 kΩ	0.25W	25

42		10 k Ω	0.25W	30
43		10 Ω	0.25W	40
44		5 Ω	0.25W	40
45		2.4 Ω	0.25W	80
46		5 Ω	0.25W	73
47		20 Ω	0.25W	45
48	Эсэргүүцэл	0.5M Ω	0.25W	10
49		20 k Ω	0.25W	23
50		20 Ω	0.25W	25
51		1.2 M Ω	0.25W	40
52		1 k Ω	0.25W	40
53		2 k Ω	0.25W	25
54		4 Ω	0.25W	85
55		51 Ω	0.25W	35
56		150 Ω	0.25W	123
57		270 Ω	0.25W	120
58		330 Ω	0.25W	110
59		470 Ω	0.25W	105
60			670 Ω	0.25W
61	Туйлгүй конденсатор	0.1 μ F, 25 V		64
62		0.001 μ F, 25V		50
63		0.68 μ F		66
64		0.47 μ F		59
65		0.1 μ F	25V	14
66		0.001 μ F	25V	15
67	Туйлтай конденсатор	22 μ F	25	33
68		1 μ F	50V	170
69		2.2 μ F	50V	146
70		10 μ F	25V	15
71		47 μ F	50V	48
72		47 μ F	25V	48
73		10 μ F, 24V		50
74		22 μ F, 25V		50
75	n-MOSFET	IRF840		80
76	p-MOSFET	IRF4905		80
77	nMOSFET	2N7000		80
78	high-speed Dual 2-Line to 4-Line Decoder/Demultiplexer integrated circuit using low-power Schottky TTL technology	74ls155		4
79	Multiplexer	74LS157		10
80	Multiplexer	74LS151		20
81	6-input to 1-line digital multiplexer/data selector IC	74LS150		15
82	ADC	ADC0809		33
83	DAC	DAC0808		15

84	NPN транзистор	2N3904, 40V,200 mA		20
85	NPN транзистор	2N2222, 40V,600 mA		20
86	NPN транзистор	BC547, 65V,100mA		20
87	PNP транзистор	BC556, 65V,100mA		24
88	PNP транзистор	A1015, 50V,150mA		20
89	PNP транзистор	MP41A	60V	24
90	PNP транзистор	TIP42C	100V	7
91	Flip-Flop (JK)	7476		30
92	Comparator	LM339M		25
93	Op-Amp	LM358		15
94	Таймер	NE555		50
95	nMOSFET	2N7000		80
96		ULN2803		70
97	сுவгийн транзистор драйвер IC	ULN2003		10
98	AND	74LS08		40
99	NAND	74LS00		15
100	NAND	NAND)		7
101	OR	74LS32		54
102	NOT (Inverter)	74LS04		25
103	NOR	74LS02		35
104	XOR	74LS86		61
105	3 input NOR	74HC27		17
106	2 input NAND	74LS03		25
107	9 bit parity genetor	74HC280		15
108	2 input psitive NAND	74ALS03		25
109	octal buffer	74LS241N		10
110	TTL generator	74LS182		14
111	parity bit generator	SN74180		40
112	CMOS 2 input OR gate	GD74HC32		8
113	CMOS 2 input AND gate	HEF4081bp		10
114	CMOS buffer	CD4050		19
115	BCD to seven-segment decoder	74LS49		20
116	D Flip-Flop	74LS374		15
117	4 bit ALU and function generator	74LS382		15
118	high-speed CMOS octal bus transceiver designed for asynchronous,	74HC245		15
119	high-speed CMOS integrated circuit that contains three independent 3-input NAND gates	74HC10		24
120	TTL (Transistor-Transistor Logic) integrated circuit containing six independent inverter buffers.	SN7406		25
121	monostable multivibrator,	dm74121		20
122	CMOS 2 input NAND	TC4011		10
123	8-bit magnitude comparator	74LS682		15
124	single 8-input NAND gate.	74HS30		20
125	CMOS 2 input AND gate	74HC08		10

126	op-amp	LM741		9
127	Low-power dual voltage comparator IC	LM393		4
128	8-bit CMOS successive-approximation analog-to-digital converter	ADC0804		3
129	high-speed Dual 2-Line to 4-Line Decoder/Demultiplexer integrated circuit using low-power Schottky TTL technology	74ls155		4
130	3-input NOR gates	74ls27		1
131	2-input NAND gates	74ls00		2
132	CMOS 2-input NAND gates	74hc00		1
133	divide-by-12 counter	7492		2
134	4-to-16 line decoder/demultiplexer	74hc154		1
135	8-bit Serial-In, Parallel-Out (SIPO)	74hc595		1
136	2-input multiplexer	74hc157		1
137	bit bidirectional universal shift register	74ls194		1
138	4-bit magnitude comparator	7485		2
139	high-voltage, high-current Darlington transistor array IC containing eight NPN pairs with common-emitter, open-collector outputs.	uln2803		2
140	CMOS 3-input OR gates.	cd4075		2
141	14-inch business-oriented ultraportable laptop or 2-in-1	7420		1
142	14-inch premium business laptop	7410		1
143	Full Adder	74LS83		15
144	Flip-Flop (JK)	7476		24
145	Decoder (7-segment)	7448		4
146	NAND/NOR (mixed logic)	74LS55		10
147	Op-Amp	LM308		25
148	Op-Amp	741		8
149	AND	4081		10
150	3 input AND	74LS11		27
151	AND	74LS21		23
152	NAND	74HC00 / 74HC00AP		29
153	NAND	4012B		10
154	NAND	TS4011		10
155	NAND	HD14001		10
156	NAND	7430		21
157	NAND	74LS20		21
158	NAND	74HC20		50
159	NOR	74HC02		42
160	NOR	74LS02		8
161	NOR	CD4069		10

162	NOR	GD4071B		10
163	XOR	74LS266		11
164	NOT (Inverter)	74HC04		10
165	NOT (Inverter)	74HC14		25
166	NOT (Inverter)	7406		60
167	JK Flip-Flop	74LS109		15
168	JK Flip-Flop	74LS112		15
169	D Flip-Flop	74LS74		11
170	D Flip-Flop	74LS175		19
171	Register	74LS174		13
172	Register	74HC377		15
173	Register	74HC375		15
174	Latch	74LS373		15
175	Latch	74LS279		60
176	Counter	74LS90		17
177	Counter	74LS93		10
178	Counter	7493		10
179	Counter	7491		13
180	Counter	74AS163N		15
181	Shift Register	74LS164		17
182	Shift Register	7495		25
183	Full Adder	74LS83		17
184	Adder	74LS283		15
185	Carry Generator	74LS82		14
186	ALU	74181		10
187	Decoder	7445 / HD7445		35
188	Decoder	74138 / MC74HC138		36
189	Encoder	74LS148		19
190	Multiplexer	74LS157		16
191	Multiplexer	74HC151		11
192	Demultiplexer	74LS139		14
193	Buffer	74HC125		15
194	Buffer	74LS126		15
195	Buffer	74HC541		16
196	Buffer	74HC540		15
197	Buffer	74LS240		19
198	Buffer	74HC240		12
199	Buffer	74LC241N		10
200	Voltage Regulator	LM317		15
201	Comparator	LM339		16
202	Optocoupler	4N25147Q		49