

DIN32 parts list (in recommended order of assembly)

Qty.	Symbol	Description
1	S1	16-pin DIP socket (Jameco 112221)
5	S2-S6	20-pin DIP sockets (Jameco 112248)
1	RN1	2.2K Ω 7-element SIP resistor network (Digi-Key 770-81-R2.2K)
4	RN2-RN5	2.2K Ω 9-element SIP resistor networks (Jameco 97893)
1	SW1	6-segment DIP switch (Digi-Key CT2066)
2	H1, H2	12-pin Waldom side entry connectors (Mouser 538-09-52-3121)
1	H3	32-pin Waldom right angle header (make from 24-pin right angle header Mouser 538-26-48-1242 – see text)
6	C1-C6	.1 μ F, 50V monolithic capacitors (JDR .1UF-MONO)
2	C7, C8	2.2 μ F, 16V tantalum capacitors (Jameco 94001)
1	U1	74LS138 3-to-8 decoder (Jameco 46607)
1	U2	74HCT688 8-bit Magnitude comparator (Jameco 45129)
4	U3-U6	74LS540 octal inverting buffer/drivers (Jameco 47861)

Mating connector for cable

4	—	8-pin Waldom terminal housings (Mouser 538-09-50-3081)
32	—	Crimp terminals (Mouser 538-08-50-0106 for wire sizes 18-20 or 538-08-50-0108 for wire sizes 22-26)

Author's recommendations for suppliers given in parentheses above with part numbers where applicable. Equivalent parts may be substituted.

Optional add-on parts to DIN32 for input line filtering

Fixed resistor and most popular alternate capacitors for different levels of filtering (see text)

32	R1-R32	100 Ω resistors [brown-black-brown]
32	C9-C40	.1 μ F, 35V tantalum capacitors (Jameco 33486)
32	C9-C40	.1 μ F, 50V monolithic capacitors (JDR .1UF-MONO)
32	C9-C40	1 μ F, 35V tantalum capacitors (Jameco 33662)
32	C9-C40	10 μ F, 16V tantalum capacitors (Jameco 94060)
32	C9-C40	22 μ F, 16V radial lead electrolytic capacitors (Digi-Key P6224)
32	C9-C40	47 μ F, 16V radial lead electrolytic capacitors (Digi-Key P6226)
32	C9-C40	100 μ F, 16V radial lead electrolytic capacitors (Digi-Key P6227)

Note: Lead spacing for capacitors should be between .079" (2mm) and .1" (2.5mm)