

PA552-QFP Data Sheet

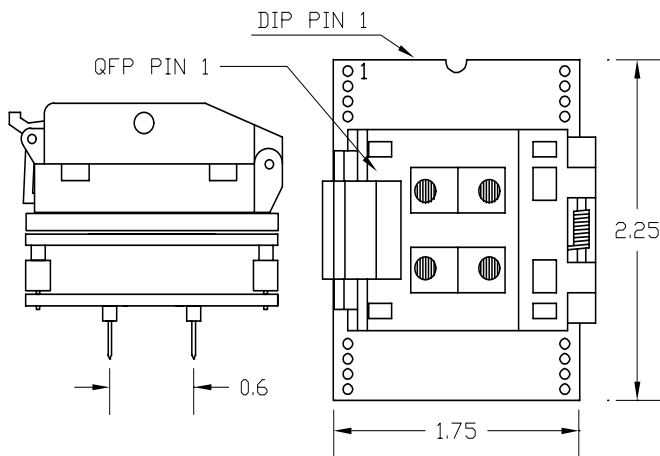
80 pin QFP socket/40 pin DIP 0.6" plug

Supported Device/Footprints

This adapter allows programming of the Philips 87C552 and 87C554 in a QFP package on 40 pin DIP programmers capable of programming the 87C51Fx.

Device			Footprint	
Mfgr	Device	Package	Device	Plug
Philips	87C552 (8K)	80 pin QFP	87C51FA (8K)	40 pin DIP
	87C554 (16K)	(SOT318-2)	87C51FB (16K)	

Adapter Dimensions



Adapter Construction

The adapter is made up of 3 sub-assemblies. They assemble via connectors making the adapter modular. This way the sub-assemblies can be replaced when they wear out.

When disassembling the adapter take care not to bend the pins. When reassembling the adapter note the pin 1 indicators to align the parts correctly.

Test Socket

QFP test socket:

Yamaichi Part #: IC51-0804-819-1 LSC Part #: 80QF-819-1

552QFP

Accepts the test socket and connects to the 44 pin header using the 87C51Fx-PLCC pinout.

51BASE

Converts the 44PLCC header pinout to the 87C51Fx40 DIP Plug pinout.

Adapter Wiring

The following chart shows the connections from the QFP device to the adapter's DIP plug.

DEVICE	SIGNAL	PLUG	PLUG	SIGNAL	DEVICE
1	P4.1	-	-	P4.0	80
2	P4.2	-	-	NC	79
3	NC	-	-	NC	78
4	P4.3	-	-	-EW	77
5	P4.4	-	-	-PMW1	76
6	P4.5	-	-	-PMW0	75
7	P4.6	-	-	STADC	74
8	P4.7	-	-	NC	73
9	RESET	9	40	VCC	72
10	P1.0	1	-	P5.0	71
11	P1.1	2	-	P5.1	70
12	P1.2	3	-	P5.2	69
13	P1.3	4	-	P5.3	68
14	P1.4	5	-	P5.4	67
15	P1.5	6	-	P5.5	66
16	P1.6	7	-	P5.6	65
17	P1.7	8	-	P5.7	64
18	P3.0	10	-	AVDD	63
19	P3.1	11	-	NC	62
20	P3.2	12	-	AVSS	61
21	NC	-	-	AVREF+	60
22	NC	-	-	AVREF-	59
23	P3.3	13	39	P0.0	58
24	P3.4	14	38	P0.1	57
25	P3.5	15	37	P0.2	56
26	P3.6	16	36	P0.3	55
27	P3.7	17	35	P0.4	54
28	NC	-	34	P0.5	53
29	NC	-	33	P0.6	52
30	NC	-	32	P0.7	51
31	X2	18	31	VPP	50
32	X1	19	30	-PROG	49
33	NC	-	29	-PSEN	48
34	GND	20	28	P2.7	47
35	GND	20	27	P2.6	46
36	GND	20	26	P2.5	45
37	NC	-	-	NC	44
38	P2.0	21	-	NC	43
39	P2.1	22	25	P2.4	42
40	P2.2	23	24	P2.3	41