PA20-20-5-2808-x Data Sheet
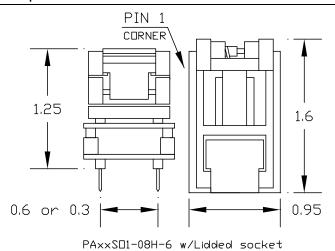## 20 pin SO socket/20 pin DIP 0.3" or 0.6" plug

Supported Device/Footprints

Using this adapter, several 20 pin SO packages with a body width of 7.4mm - 7.9mm and lead pitch 1.27mm can be programmed on BP Micrsystems EP1140 programmers. The following devices are known to work with this adapter.

	Device			Footprint	
Mfgr	Device	Package	Pgmr		Plug
Atmel	AT89C1051	20 pin SO	EP1140		20 pin DIP
Atmel	AT89C2051	20 pin SO	EP1140		20 pin DIP

Adapter Dimensions

PAxxSO1-08H-6 w/Lidded socket

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
SO Lidded test socket:
Enplas Part #: FP-20(28H)-1.27-08   LSC Part #:20(28H)SD-08

This socket is depopulated from 28 pins to 20 pins. The sockets are removable so that they may be replaced if damage occurs. They are depopulated at the Pin 1 end.   If you remove the socket be sure to replace it with the hinge at the Pin 1 end.

28SO08
Accepts the test socket and connects to the bottom board that remaps the signals.

20-20-5-3(6)
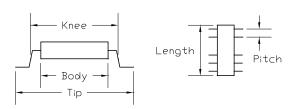May have a 0.3" or 0.6" bottom plug. The various boards are listed in the previous chart .

Device Dimensions

This socket can accept devices of the following dimensions:

Body mm (inches)			Knee mm (inches)		
min.	typ.	max.	min.	typ.	max.
7.4 (0.291)	7.8 (0.307)	7.9 (0.311)	n/a	9.3 (0.366)	9.4 (0.370)
Tip mm (inches)			Body Length		Lead Pitch
min.	typ.	max.	n/a		1.27
10.0 (0.394)	11.6 (0.457)	n/a			

Wiring

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

DEVICE	PLUG	PLUG	DEVICE
1	1	20	20
2	2	19	19
3	3	18	18
4*	10*	17	17
5	5	16	16
6	6	15	15
7	7	14	14
8	8	13	13
9	9	12	12
10*	4*	11	11

*Pins 4 & 10 are swapped.

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