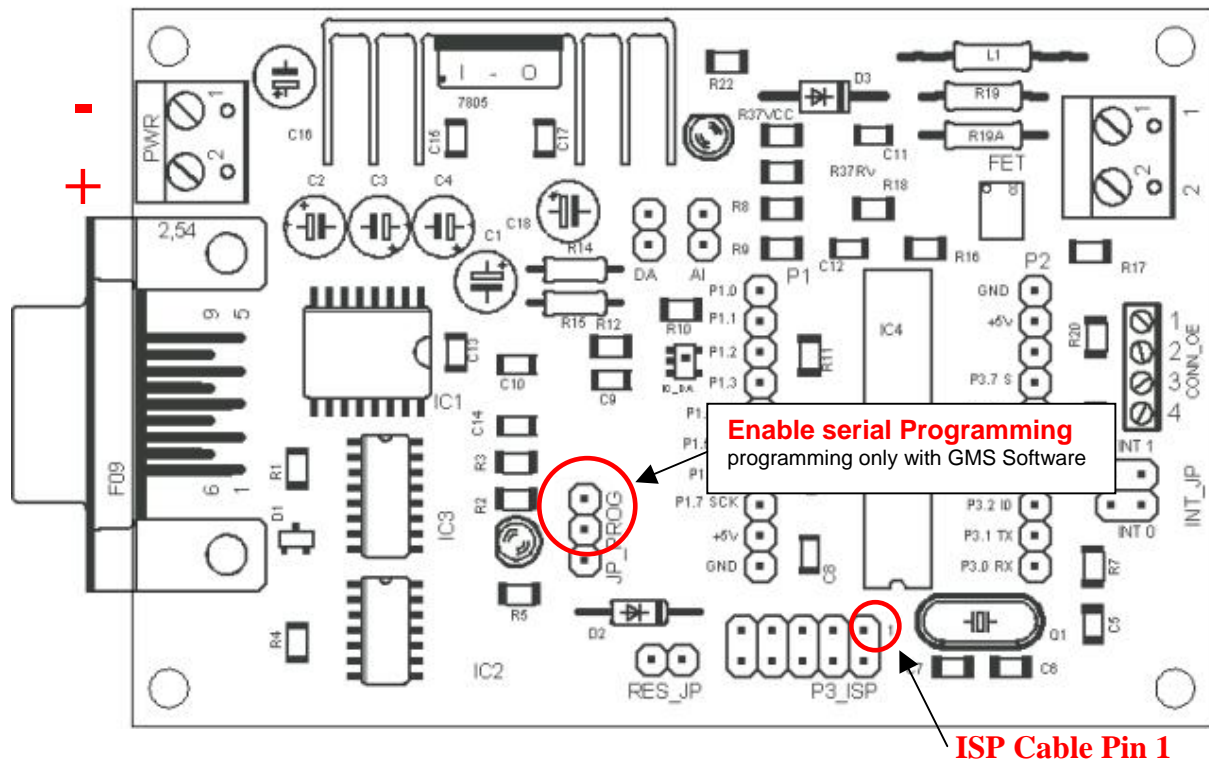


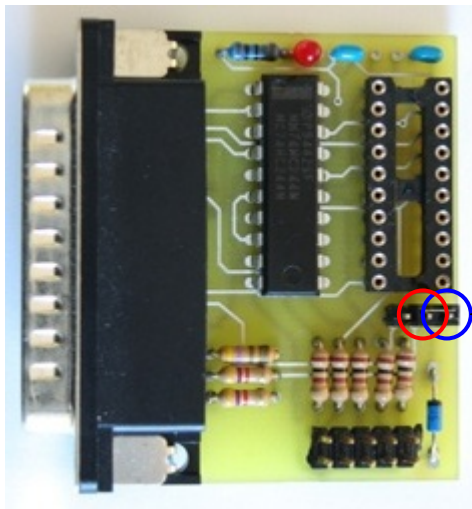
## AT89LPx052 Eval Board - some jumper settings



Serial ISP Programming (via RS232 connection) is only with GMS-MRK Flash software possible. Software for programming via serial port will be send by mail.

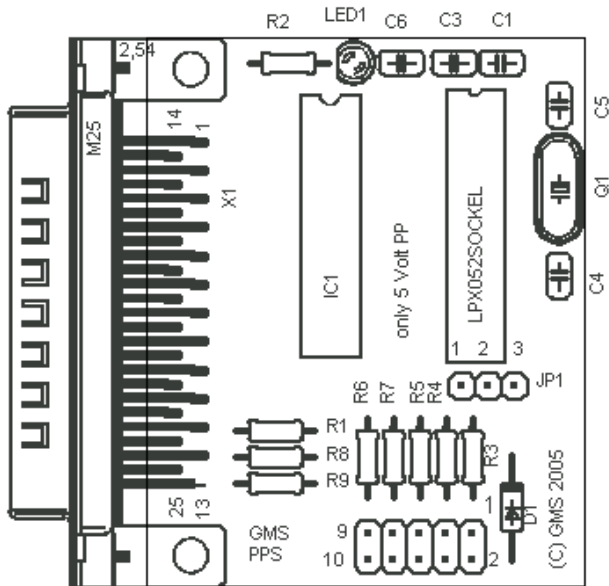
The AT89ISP connector is Atmel AT89ISP compatible.

**PPS (Parallel Port SPI Programming Adapter) - Atmel AT89ISP compatible**



Set jumper for  
**ISP Cable** programming or  
**On board** programming

If the jumper is set to 'On board' then you can flash 20 pin LP devices within the On-Borad DIP socket and without any crystal. In this case you must use GMS-MRK Flash Software. In the other position the adapter works Atmel AT89ISP compatible.



**Partlist:**

	Wert/value	Anmerkung
C1	100n Kerko	
C3	100n Kerko	
D1	BAT46	oder 1N4148
IC1	74HC244N	
LPX052	20 pol. Socket	Onboard prog.
LED1	2mA Diode!	
R1	10	
R2	1K8	
R3	100	
R4	100	
R5	100	
R6	100	
R7	100	
R8	4K7	
R9	4K7	
JP1	Pinhead 1*3	
JP2	Pinhead 2*5	ISP Pinhead 2x5
C4-C6,Q1	nicht bestücken	Not used

**Use short cables for AT89ISP connection!**