

Paper tape reader - bill of materials

jm 23.12.2020

Ref	Count	Value	Reichelt Nr.	Euro /unit	Euro total	Comments
R1 - R4	4	1 kOhm, Yageo	METALL 1,00K	0,08	0,32	diameter < 2.4 mm! Alternatively use 0603 or 0805 SMD type.
R5	1	680 Ohm, Yageo	METALL 680	0,08	0,08	
RN1	1	9*4,7k	SIL 10-9 4,7K	0,10	0,10	
C1	1	100 nF, RM 2.54 mm	X7R-2,5 100N	0,07	0,07	
LED1 - LED9	9	Kingbright L-2060SRD	LED 1,8MM SRT	0,13	1,17	
T1 - T9	9	Vishay BPW 17N	BPW 17N	0,37	3,33	
S1	1	OMRON B3F-1002	OMR B3F-1002	0,31	0,31	
JP1	1	Precision socket 1*2	MPE 006-1-002	0,12	0,12	or use part of Arduino/RN1 socket below
JP2	1	two wire ends	n/a			use clipped wire ends
U1	1	"Arduino" Pro Micro 16 MHz 5V	n/a			original from Sparkfun or generic from ebay
Jumper	1	Pin header 1*8 pins	MPE 087-1-008	0,19	0,19	optional: For TX, TST, INV, 5BIT jumpers
Arduino socket	2	Precision socket 1*20	SPL 20	0,36	0,72	optional, to keep Arduino removable. Need 2*12 pins; can use rest for RN1, JP1.
Arduino pins	2	Precision pins 1*20	AW 122/20	0,74	1,48	optional, when using socket. Need 2*12 pins. Can use bare wires to reduce height.
Screws	4	M3 * 12 mm				slightly longer than 12 mm preferred
Nuts	4	M3				use hat nut or knurled nut to serve as feet for the reader
Total					7,88	