

knitter-switch

New Product-Generation Notification

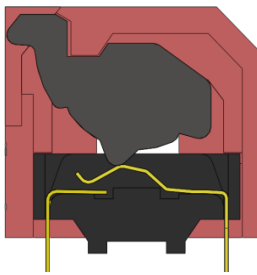
Old version (discontinued): DBP 2102, DBP 2103, DBP 2104, DBP 2105, DBP 2106, DBP 2107, DBP 2108, DBP 2109, DBP 2110, DBP 2112

New version: DBP 2102 N, DBP 2103 N, DBP 2104 N, DBP 2105 N, DBP 2106 N, DBP 2107 N, DBP 2108 N, DBP 2109 N, DBP 2110 N, DBP 2112 N

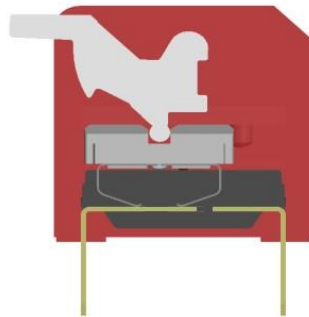
Effective date: after current stock is sold out

For several reasons, contact system and case were revised.
In order to allow clear identification, part numbers of new version end with "N".

Soldering with lever in ON position may deform movable parts and possibly cause reliability problems. Therefore the contact structure was revised:



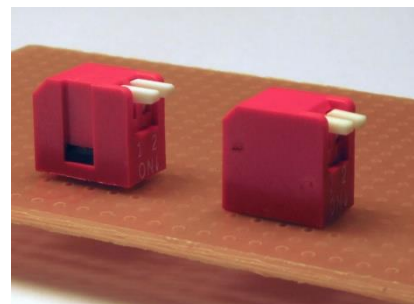
Up to now (DBP 2xxx)



From now on (DBP 2xxx N)

The new part can be soldered in both ON and OFF position.
Additionally, the change to bifurcated movable contact improves reliability.
Further, stand-offs were added to the case edges to improve the alignment of case and PCB.
All electrical spec remains unchanged. Case size differs slightly, see attached data-sheets.

To distinguish old and new model is very easy by appearance.
Note the black square cut-out in the sidewall.



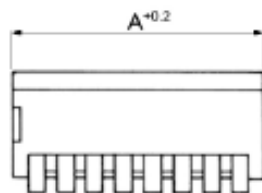
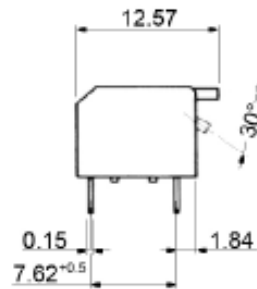
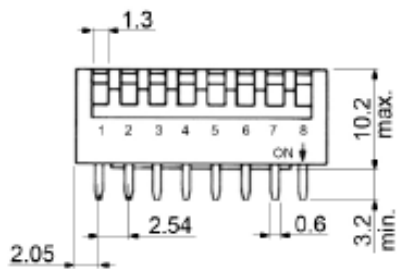
Old

New

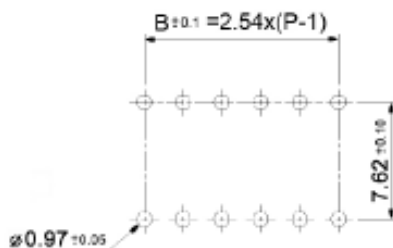
knitter-switch, November 2018

Oliver Kluj
Technical Director

knitter-switch



P.C.B. LAYOUT



xx	Poles	A	B
02	2	6.64	2.54
03	3	9.18	5.08
04	4	11.72	7.62
05	5	14.26	10.16
06	6	16.80	12.70
07	7	19.34	15.24
08	8	21.88	17.78
09	9	24.42	20.32
10	10	26.96	22.86
12	12	32.04	27.94

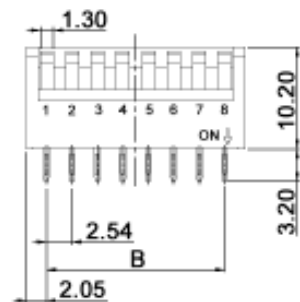
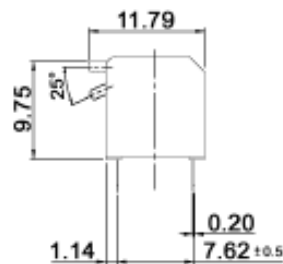
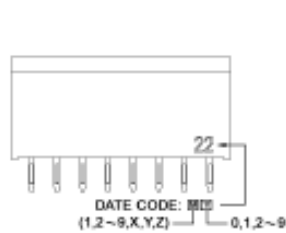
Specifications:

Contact rating:	25mA, 24V DC / 100mA, 6V DC
Contact resistance:	50mOhm max.
Insulation resistance:	100MOhm min. at 500V DC
Dielectric strength:	500V, 50Hz for the duration of 1 minute
Operating temperature:	-20°C to +70°C
Storage temperature:	-40°C to +85°C
Mechanical life:	2 000 cycles
Soldering conditions:	auto-soldering: max.: 260°C, 5sec.
Mounting:	on pc-board
Slide position:	off
Material:	PBT meets UL94V-0
	Contacts: gold plated over nickel

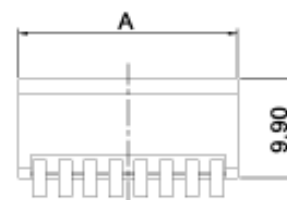


Tolerances:		Date	Name	<h2>DBP 21xx</h2>
		08/08	dr	
		knitter-switch		<h2>30 15 78</h2>
Modifications		Date	Name	Page 1/1

knitter-switch



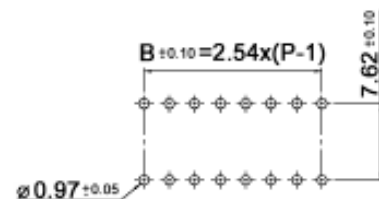
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SCHEMATIC



P.C.B. LAYOUT



Specifications:

Contact rating:	non-switching: 100mA, 50V DC switching: 25mA, 24V DC
Contact resistance:	50mOhm max.
Insulation resistance:	100MOhm min. at 500V DC for 1 minute +/-5sec.
Dielectric strength:	500V AC for 1 minute
Operating temperature:	-40°C to +85°C
Storage temperature:	-40°C to +85°C
Electrical life:	2 000 cycles
Operating force:	400gf max.
Soldering conditions:	260 +/-5°C, 5 +/-1sec.
Material:	Lever / slider: thermoplastic PBT UL94V-0, white Cover: thermoplastic PBT UL94V-0, red Contact: copper alloy, gold plated Terminal: brass, gold plated Base: thermoplastic PA66 UL94V-0, black

Compliance: Rohs II (2011/65/EU)

Tolerances: ±0.2mm		Date	Name	<h1>DBP 21xx N</h1>
		10/16	dr	
		knitter-switch		30 36 93
Modifications		Date	Name	Page 1/1