

# Erg Components

## Jumper-Switch™

- Drop in replacement for jumpers
- Secured in the ON or OFF setting
- 0.1" mounting pitch
- 1 thru 16 ON/OFF contacts
- Hard gold plated wiping contacts

A switchable jumper on 0.1" pitch that securely switches ON and OFF PCB track signals with a positive contact action. Supplied in units of 1 thru 16 poles they provide an alternative to jumpers without the need for "parking pins" on the PCB or exposed bare pins.

Longer units (up to 16 poles) save loading time on production. On development they can be cut with a modelling knife to achieve any combination required to provide flexible switching with the least routing on a PCB.

Options available include sliders of different colours in the EIA range and a mixture of colours for sliders in multiple way versions and slider numbering (see over).

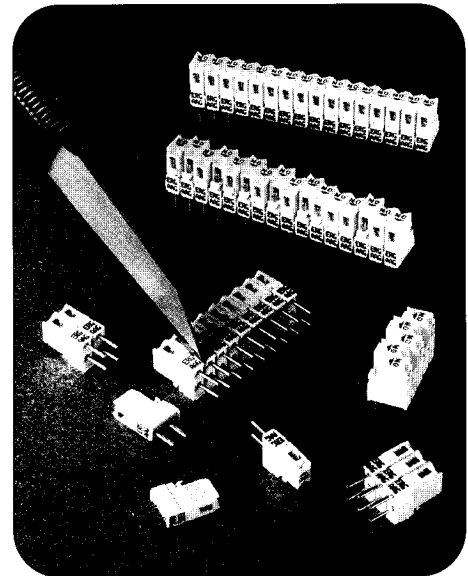
Reliable switching of the gold over nickel plated phosphor bronze contacts is assured with the 4 point wiping contact design. The contacts never rub over any plastic part and every one is tested before despatch. The positive detent action ensures good shock resistance.

The deep 'V' slots positively locate any operating probe.

**Jumper-Switch** has been designed for use on hand or flow soldered and washed PCBs. The tight pin fit prevents any wicking. Users should evaluate that their particular processes are compatible with the unsealed contact design concept.

We will soon be releasing 2 changeover versions (including a "Centre OFF" Tri-State) and right angle mounting options for PCB edge switching – please contact our Sales Department if any of these are of interest so we can keep you informed of our progress.

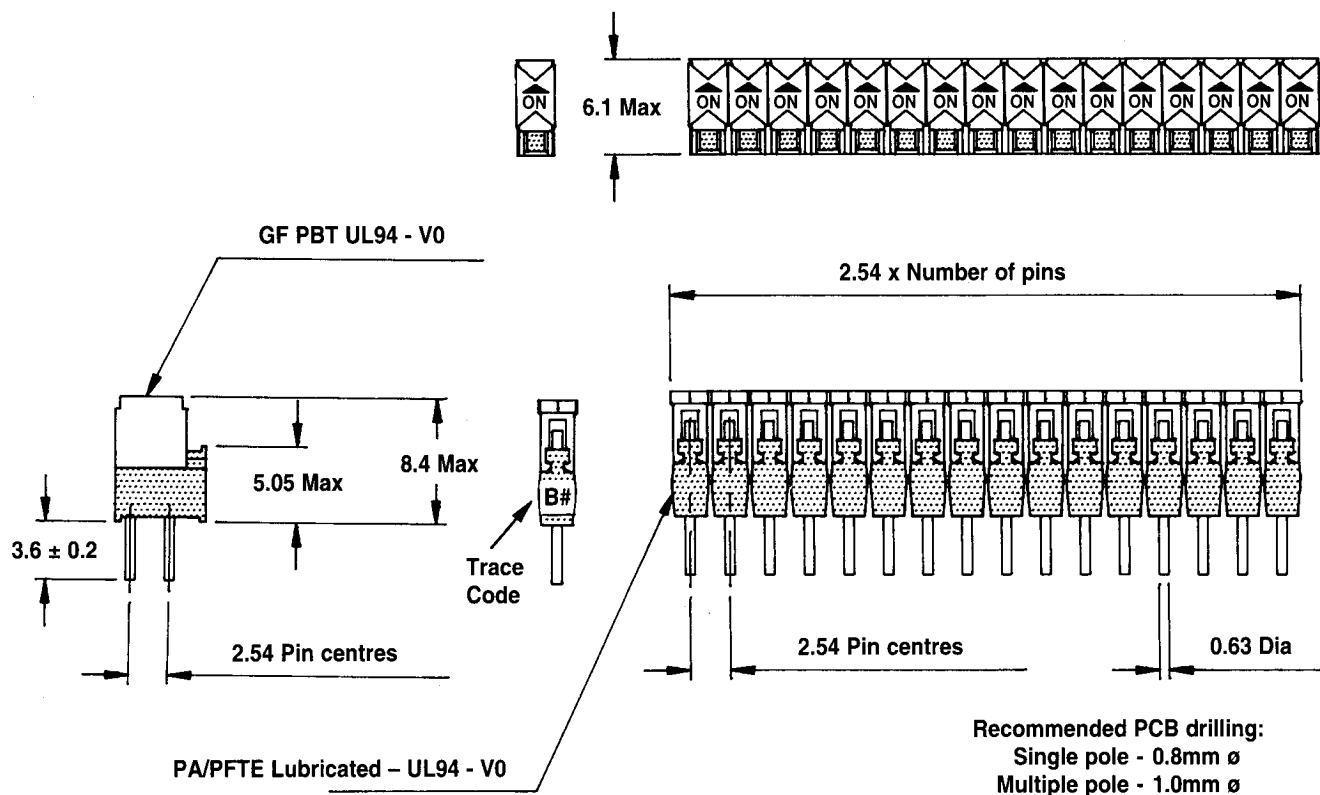
Jumper-Switch is currently stocked by Fanell Electronic Components Tel: 0113 263 6311 and RS Components from March 1998.



## Erg Components

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## Mechanical Details



## Principal Electrical and Performance Data at 20°C, 70% RH

**Contact ratings – Non Switching:** 100Vac, 5A

**Switching:** 1µV to 100V, 1µA to 1A, 10VA  
Contacts are shipped in 'ON' position

**Initial Contact Resistance** – (at 10VA, 10mA max).  
Typical: 10mΩ Max: 15mΩ

**Insulation resistance** – (at 500 Vdc min.) 1,000MΩ

**Life:** Minimum 1,000 operations

**Dielectric Strength** – 1 minute: 500Vrms 50Hz

**Capacitance between open contacts:** <5pf. at 1 KHz

**Temperature** – Operating range for continuous electrical use and manual operation is restricted to -55°C to +85°C for standard products.

**Operating Force** – Per pole – Max. 5N

**Humidity** – Damp Heat Steady State: 56 days

**Solderability:** <2 seconds to wet at 235°C as per IEC 68 and BS2011 Test T, solder bath method.

**Resistance to Soldering Heat** as per IEC 68 and BS2011 10 seconds satisfactory at 260°C when mounted on 1.5mm p.c.b.

Samples for your application are available on request.

## Ordering Code Details

	JSA4	08	G0
Jumper-Switch™	_____		
2 rows of pins – ON/OFF	A	_____	
Slider colour Yellow (Standard slider)	4	_____	
Number of sliders	8	_____	
Optional - numbered sliders	N	_____	
Gold thickness (Standard 0.1µ)	G0	_____	
(Special 1.0µ)	G1	_____	

This leaflet is believed to contain the best information available at the time of printing, but is subject to change without notice. Performance figures, where quoted, are actually estimates based on our experience or that of our suppliers, customers or statutory authorities. In common with all components reliability varies with many factors, and users are invited to contact us in appropriate cases so that where relevant information is available it may be considered by the user. All supplies are subject to the Company's standard conditions of sale, which are available on request.

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