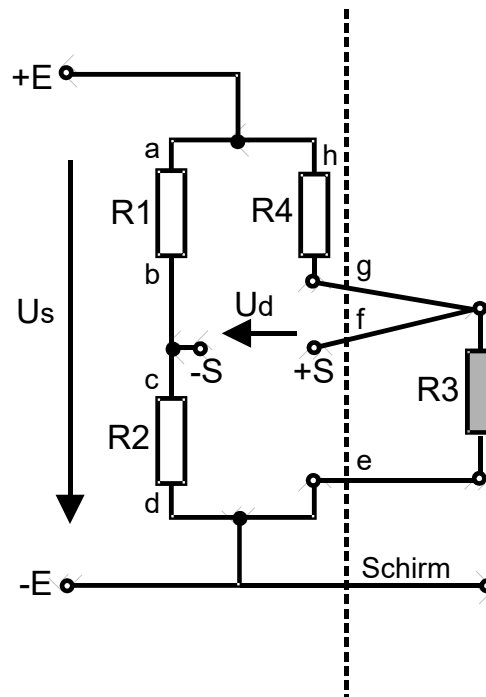
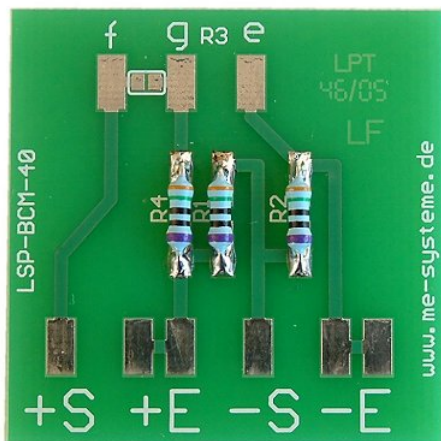


LSP-BCM-40

The PCB LSP-BCM-40 is used as a "soldering pad" in close proximity to the strain gauge. It serves as a bridge completion for strain gauges in quarter-bridge circuit.

The connections "e", "f" and "g" are designed to connect the active strain gauge R3 in 3-wire technique. Positive strain (tensile load) leads to a positive difference signal at the terminals +S and -S. The bridge supply takes place at the terminals +E and -E.

Pin assignment



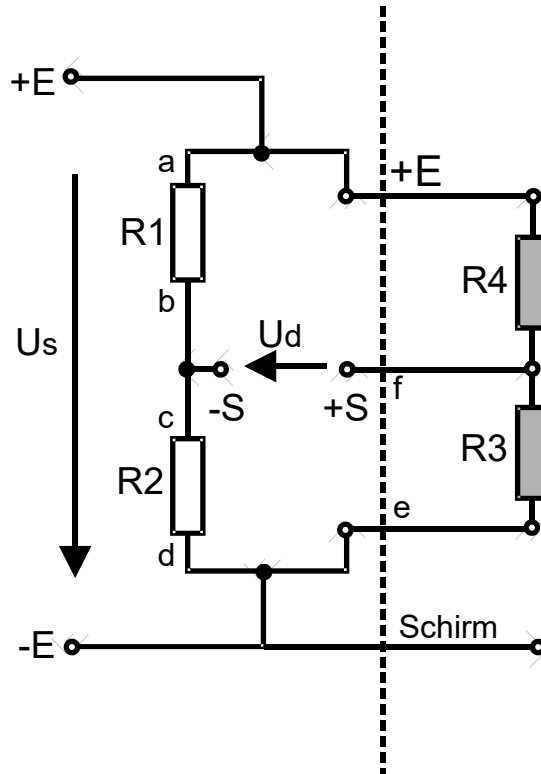
abbreviation	designation	Standard color code
+E / +Us	+Excitation / positive bridge supply	brown / pink
-E / -Us	-Excitation / negative bridge supply	white / gray
+S / +Ud	+Signal / positive signal	green
-S / -Ud	-Signal / negative signal	yellow

Technical specifications

Dimensions	40 mm x 40 mm x 5 mm
resistance	120 Ohm bzw. 350 Ohm 1)
resistance tolerance	±0,1%
temperature coefficient	5ppm/k

1) for variant LSP-BCM-40-120 bzw. LSP-BCM-40-350

Connection of a half bridge:



The bridge augmentation module can also be used to connect a half-bridge. In this case, the terminals "e", "f" and "+ E" are used.

Changelog

Version	date	changes
lsp-bcm-40_en.odt	25.05.08	first version
lsp-bcm-40_en-v1.0.odt	14.12.18	Layout revised