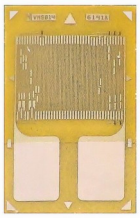
Strain gauge N2A-13-S5128N-10C/E4

Item number: 11978



Universally applicable strain gauge for the construction of sensors and for use in stress analysis. The carrier material of this strain gauge is a special polyimide with about 20µm thickness. The Konstantan measuring grid (3 ... 5µm) is covered with polyimide film, also with a thickness of approx. 20µm. This strain gauge type is very flexible and is well suited for use on flat and curved surfaces.

The Vishay series N2A with polyimide backing foil and Konstantan measuring grid is stable in zero signal and characterized by very low temperature-induced drift of the zero signal. The temperature-related drift due to expansion of the sensor body is compensated for the materials steel (variant 06) and aluminum (variant 13). The permitted range of use is from -76 ° C to + 95 ° C. 10^7 load cycles with alternating load ± 1500µm / m are achieved, or 10^8 load changes with swelling load 0 ... + 1500µm / m.

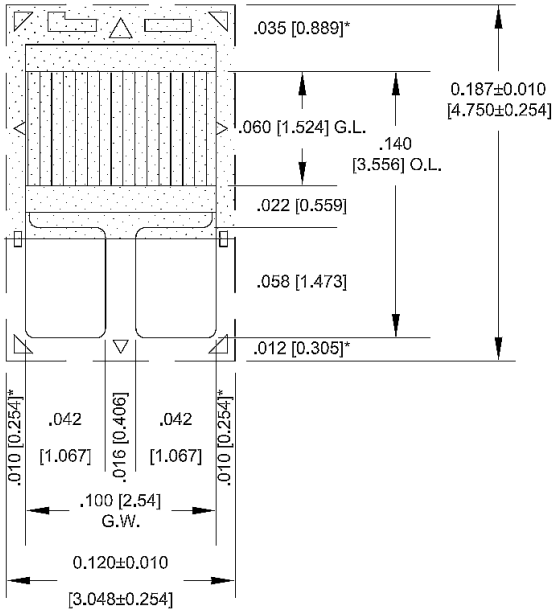
The gage factor of the transducer class strain gage is approx. 2.05 and is not individually identified, unlike as for straingages for stress analysis.

ME-Meßsysteme GmbH
Eduard-Maurer-Str. 9
DE-16761 Hennigsdorf

Tel: +49 (0)3302 8982 4 10
Mail: vertrieb@me-systeme.de
Web: www.me-systeme.de

Stand: 10.03.2026

Technical Drawing



* THESE MATRIX RELATED
DIMENSIONS ARE ±.0025 [±0.06]

ME-Meßsysteme GmbH
Eduard-Maurer-Str. 9
DE-16761 Hennigsdorf

Tel: +49 (0)3302 8982 4 10
Mail: vertrieb@me-systeme.de
Web: www.me-systeme.de

Stand: 10.03.2026

Technical Data

Strain gauge		Einheit
Purpose of measurement	Aufnehmerbau	
Type	Metalllfolie	
Number of grids	1	
Grid width	2.54	mm
maximum width	3	mm
Grid length	1.52	mm
maximum length	4.7	mm
Resistance	1000	Ohm
Tolerance resistance	0,2 %	
Substrate	Polyimid	
Temperature compensation	Aluminium-13	

ME-Meßsysteme GmbH
Eduard-Maurer-Str. 9
DE-16761 Hennigsdorf

Tel: +49 (0)3302 8982 4 10
Mail: vertrieb@me-systeme.de
Web: www.me-systeme.de

Stand: 10.03.2026