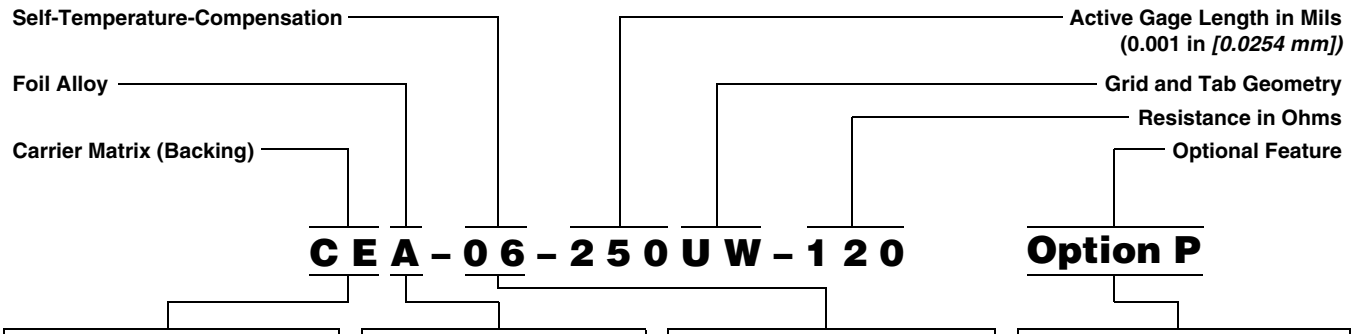
Stress Analysis Gages

The Strain Gage Designation System described below applies to Vishay Micro-Measurements General-Use Strain Gages.



E: Open-faced cast polyimide backing.

CE: Thin, flexible gages with a cast polyimide backing and encapsulation featuring large, rugged, copper-coated solder tabs. This construction provides optimum capability for direct leadwire attachment.

L2: Thin, laminated, polyimide-film backing featuring encapsulated grids with preattached leadwire ribbons.

C2: Thin, laminated, polyimide-film backing featuring encapsulated grids with leadwire cables.

W: Fully encapsulated, glass-fiber-reinforced epoxy phenolic resin. High endurance leadwires.

N2: The 'N2' matrix provides an open faced gage on a thin, high-performance laminated polyimide film backing.

S2: Gage grid and solder tabs fully encapsulated in a thin, flexible, laminated polyimide film. Provided with large (0.030 in [0.75mm]) solder pads for ease of leadwire attachment.

S: Full encapsulation identical to the W matrix, but with solder dot connections instead of leadwires.

A: Constantan alloy in self-temperature-compensated form.

P: Annealed Constantan.

D: Isoelastic alloy.

K: Nickel-chromium alloy (similar to Karma).

The S-T-C number is the approximate thermal expansion coefficient in ppm/°F of the structural material on which the gage is to be used. The following S-T-C numbers are available:

A: 00, 03, 05, 06, 09, 13, 15, 18, 30, 50

P: 08, 40

K: 00, 03, 05, 06, 09, 13, 15

D: Not available in self-temperature-compensated form. 'DY' is used instead.

W: Integral printed circuit terminal, polyimide encapsulation.

E: Polyimide encapsulation, leaving a portion of solder tab exposed.

SE: Solder dots plus polyimide encapsulation.

L: Preattached, soft, formable copper leads.

LE: Leads plus polyimide encapsulation.

P: Preattached leadwire cables and encapsulation.

P2: Preattached leadwire cables for CEA-Series gages.

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