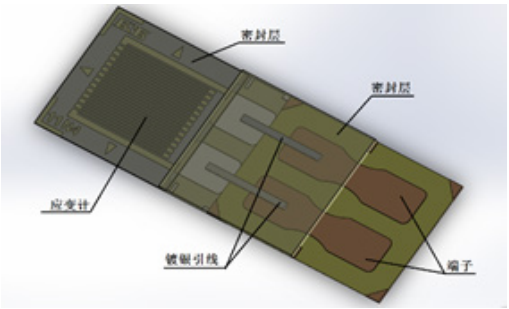
Strain Gage With Self-Terminal

Brief introduction and features:

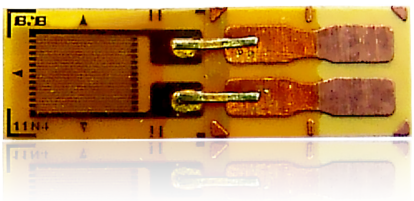
During the installation of the strain gages, we need the procedure of bonding, fixing and soldering & wiring, due to the size of the strain gage is very small, thickness is about 30-40um, the soldering pad is fragile, and the requirement to the soldering parameters(temperature, time, pressure) and soldering skill is higher, while the users lack of professional training and soldering experience, cannot well control soldering, then the soldering pad will be dropped, backing may be damaged or breakdown, the residual flux maybe remained etc.;Or the users may request the strain gages with silver pated wire or bandlet,but the strength of the sorldering wires is limited(Φ0.15mm or 0.3×0.16mm), the users need to connect the rerminals, which request high skill in soldering, the wires are easily broken or dropped, which may cause low soldering rate and affect cost and efficency. Therefore, our company developed the strain gage with self-terminals to well solve the above problems, the bonding method is the same, performance of this gage keep good as normal gages, and easy to solder and improve the efficiency and save cost.

Features:

1. Adopt high performance polyimide backing, the grid size is the same as standard gages, with the thickness of 0.07mm soft terminal, the users can solder the lead wires diameter less than Φ0.5mm directly on the terminal.
2. The performance is the same as normal strain gages, after 10^7±1000um/m times fatigue loading, the resistance change is not more than 0.05%, the connected silver plate wires has no any changes, can fullfil the high precision strain and stress measurement.



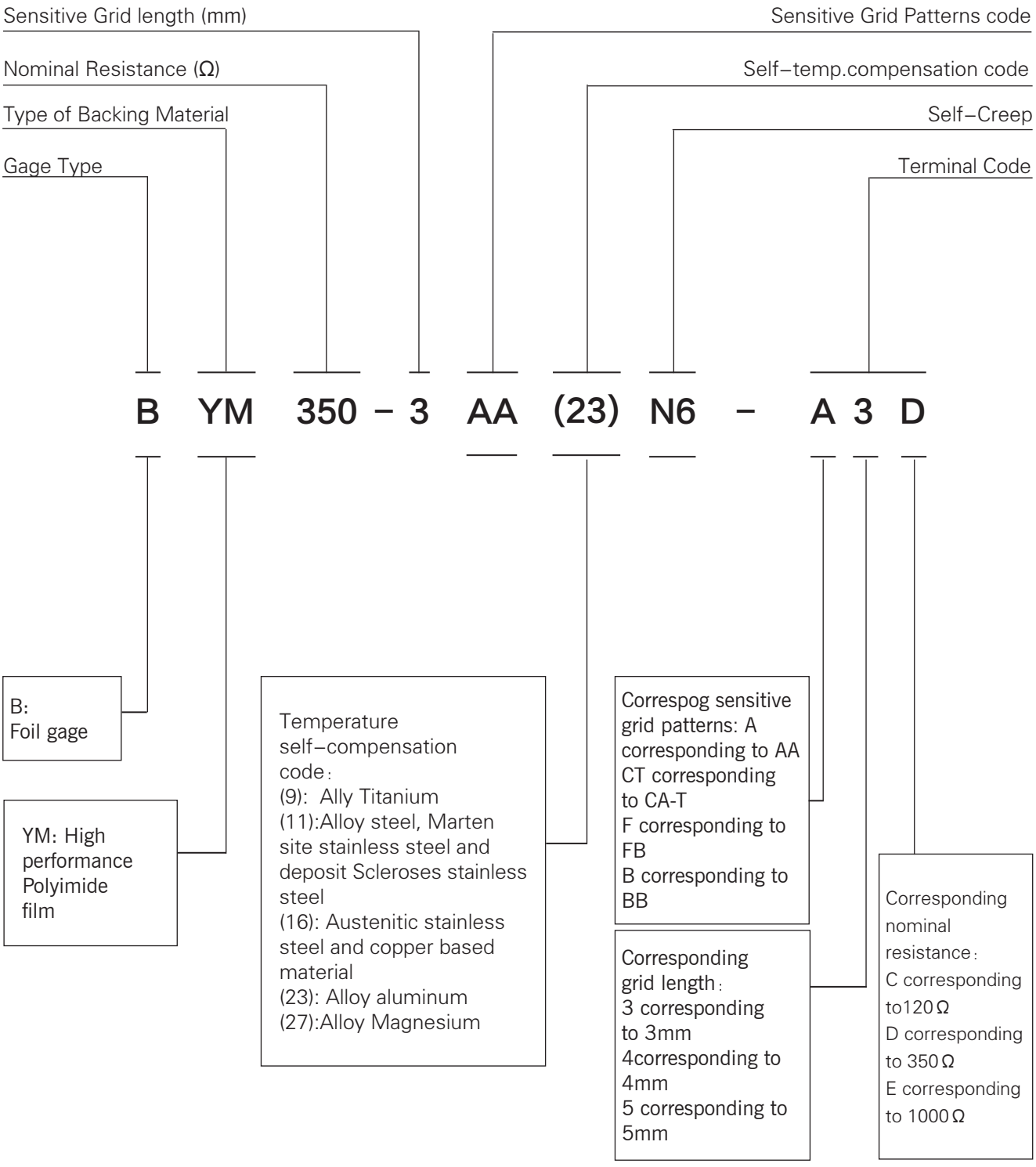
Structural representation



Real strain gage

Strain Gage With Self-Terminal

Designation system for strain gage with self-terminals

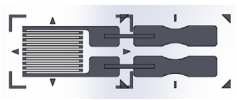
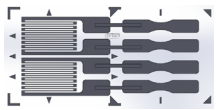
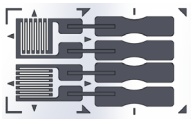
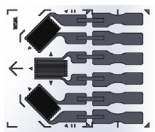


Strain Gage With Self-Terminal

Specifications

Product	BYM serrials
Sensitive grid length	Constantan
Terminal materials	Polyimide, Pure copper
Typical resistance (Ω)	120、350、1000
Resistance tolerance	≤±0.1%
Typical sensitive coefficient	1.86~2.20
Sensitive coefficient disperse	≤±1%
Temperature range	-30~+80
Temperature compensation coefficient	9、11、16、23、27

Strain Gages With Self-Terminals

Product form	Product Model	Sensitive grid size Long (L) × width (W) (mm)	Backing size Long (L) × Width (W) (mm)
	BYM120-3AA(**)N4-A3C	2.8×2.0	12.5×3.4
	BYM120-5AA(**)N4-A5C	5.2×2.0	13.2×4.4
	BYM350-3AA(**)N4-A3D	3.2×3.1	13.2×4.4
	BYM350-5AA(**)N4-A5D	5.0×2.9	15.1×4.4
	BYM120-3FB(**)N4-F3C	3.0×1.1	12.7×5.9
	BYM350-3FB(**)N4-F3D	3.2×2.8	13.1×7.4
	BYM120-3BB(**)N4-B3C	3.2×2.8	12.4×8.5
	BYM350-3BB(**)N4-B3D	3.2×3.4	12.6×8.9
	BYM120-3CA-T(**)-CT3C	2.8×2.1	14×11.7
	BYM120-2CA-T(**)-CT2C	2×1.7	11.8×8.9

Instruction:

1. Except the patterns in above table, we can design and produce according to customer's drawing or samples.
2. We can also produce the other temperature self-compensation strain gages.