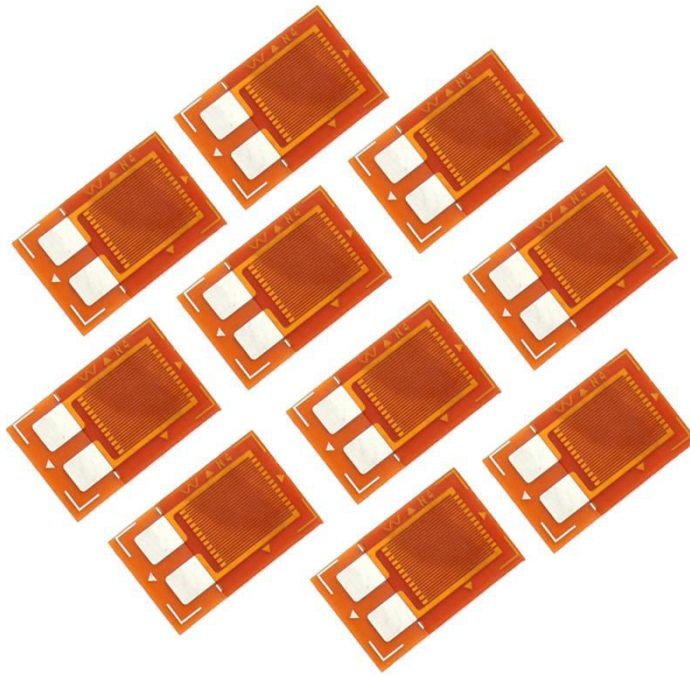


# ICStation Foil Resistance Strain Gauge

## 350 ohm BF350-3AA

(ASIN:B01MY6F9EN Part Number:12826)

<http://www.amazon.com/dp/B01MY6F9EN>



Amazon

[www.amazon.com/shops/icstation](http://www.amazon.com/shops/icstation)



Hotmail

[icstation@hotmail.com](mailto:icstation@hotmail.com)

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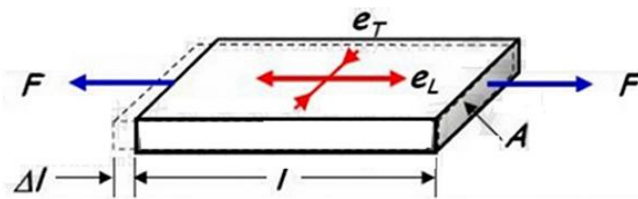
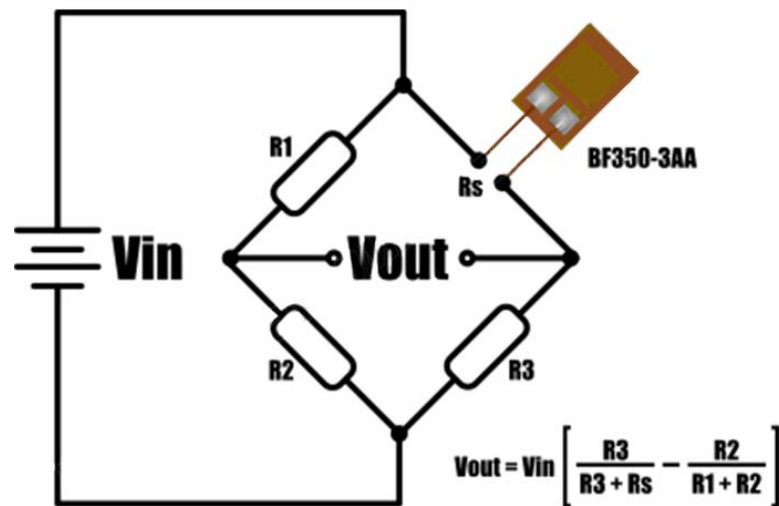
## Introduction

A resistive strain gauge sensor with a 350-ohm nominal resistance which varies when a force is applied. By measuring the change in the sensor's resistance, a measurement of the force applied to it can be obtained. The strain gauges exhibit small changes in resistance. Usually used in general metal materials and other similar elastomers.

## Parameters

Type	BF350-3 AA
Resistance	350 Ω (typ.)
The Basal Material	Epoxy-Modified Phenolic
Basal Material Thickness	32 ± 1(um)
Grid Material	Constantan
Insulation resistance	10000 Ω
Sensitivity Coefficient	2.1
Sensitivity Coefficient Dispersion	≤ ± 1%
Transverse effect coefficient	0.4%
Strain Limit	2.0%
Fatigue Lifetime	≥ 1M
Size	7.1 X 4.5mm/0.28 X 0.18inch(L*W)
Working Temperature	-30~+80°C
Temperature Compensation	Aluminium
Temperature Compensation Coefficient	9,11,16,23,27

Backing Material		Resistance in OHMs		S.T.CODE.M.C				
Kind of Strain Gage		Active Gage Length		Creep Compensation				
B	F	350	3	AA	23	T0		
B	Foil	F	Phenolics	AA	Steel	11	T5 T3 T1 T8 T6 T4 N4 N6 N8 N0 N1 N3 N5 N7 N9 → creep minus → positive	
		H X	Epoxy	HA				45° Indented Slice
T	Specific use	A	Polyimide	GB	Al	23		
				FG				Full-bridge Slice
		B	Reinforced Laminated Epoxy	KA	Wafer Slice	Stainless Steel		16



Material resistivity

$$R = \frac{\rho l}{A}$$

← Element length  
← Cross section area

$$\Delta R = \left( \frac{\partial R}{\partial l} \right) \Delta l + \left( \frac{\partial R}{\partial A} \right) \Delta A + \left( \frac{\partial R}{\partial \rho} \right) \Delta \rho$$