



High Endurance Strain Gauges DSF series $\text{C}\epsilon$

These gauges are designed for fatigue tests, and can reach a fatigue life of over 10 million times at a strain level of $\pm 3000 \mu\epsilon$. Compared to previously (1 million times at $\pm 1500 \times 10^{-6}$ strain), these are gauges of exceptionally high durability.

In aviation and other areas, repeated load tests of large elongation of composite materials are conducted. However, it had been necessary to adhere a new strain gauge frequently as a gauge reached its fatigue life. The DSF series greatly reduces time and cost of adhering gauges.

Operating temperature range

-60~+200°C

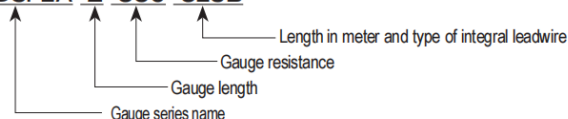
Applicable adhesives



CN -60~+120°C

EB-2 / C-1 -60~+200°C

Please specify the type number as shown in the example below.

DSFLA -2 -350 -3LJB



Gauge pattern	Type	Gauge size(mm)		Backing size(mm)		Resistance Ω
		Length	Width	Length	Width	
 DSFLA-2-350	DSFLA-2-350	2	2	8	3.3	350
 DSFLA-5-350	DSFLA-5-350	5	2	11	3.2	350

The strain gauge of this series is not self-temperature-compensated. It is recommended to measure the thermal output prior to the actual measurement using a dummy test piece made of the same material as the object to be measured.

Fatigue Limit

This number is determined as the number of cycles in case a mechanically repeated strain of $\pm 3000 \times 10^{-6}$ strain is applied to the strain gauge before the indicated strain changes by $\pm 300 \times 10^{-6}$ strain.

Minimum order quantity is 10 strain gauges.

These strain gauges are available with integral leadwires attached. (made to order)

Example of strain gauge fatigue test results

