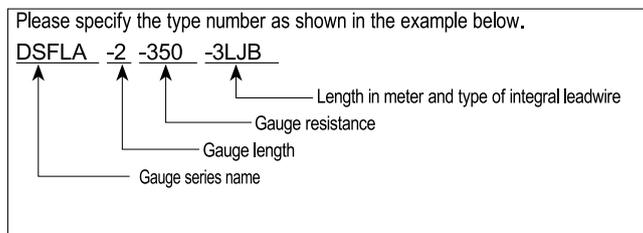


**ε DSF-Series**  
High Endurance Strain Gauges

**DESCRIPTION**

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

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

