

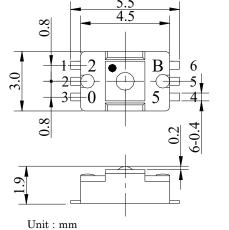
Model No. HFD-500S

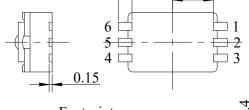
Utilizing long home-nurtured silicon micro-machining technology as core technology, we made it possible to precisely detect micro force less than 1N, which otherwise can not be achieved with conventional method.

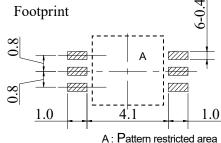
■ Features

- •Small size Low profile Outline dimension 5.5 × 3.0 × 1.9mm
- · Capable of Micro-Force Detection with High Sensitivity, High Precision
- · High durability, Life cycle 1 million cycles or more

■Outline Dimension

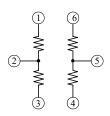








Model No. HFD-500S



Termir	Terminal					
1	Vcc					
2	+OUTPUT					
3	GND					
4	GND					
5	-OUTPUT					
6	Vcc					

■Specification

1. Maximum Absolute Rating

Typical tolerance: ± 0.1

ltem	Rating			Unit	Remark
Supply Voltage	-	-	5.5	Vdc	
Storage Temperature Range	-40	-	85	$^{\circ}\mathbb{C}$	
Operating Temperature Range	-20	ı	60	$^{\circ}\mathbb{C}$	
Breaking Load	70	-	-	Ν	Including shock
Life	1000k	-	-	Cycles	$5\sim$ 10N 60Hz(Sine wave)
Reflow Temperature	-	-	250	$^{\circ}\!\mathbb{C}$	60 sec or less at 230°C or more,
			10	sec	2 times Max.

2.Rating (Ta=25°C, Vcc=Usable at less than 5.5V)

ltem	Rating			Unit	Remark
item	Min.	Тур.	Max.	Oill	Remark
Operating Force Range	0	•	10	N	
Bridge Resistance	18	25	32	kΩ	
Offset Voltage	-10	-	10	mV/V	Output Voltage when 0[N] is applied *1, *2
Sensitivity	-	4.7	-	mV/V/N	
Linearity	-3	•	3	%FS	FS=Full Scale Span
Offset Temp. Characteristics	-5	-	5	mV	⊿from +25°C
Sensitivity Temp. Characteristics	-0.1	-	0	mV/N/℃	-20 ~ +60°C

- *1 The sensor outpit (Output Voltage) is ratiometric to the drive voltage
- *2 OUTPUT Voltage = (+OUTPUT Voltage) (-OUTPUT Voltage)
- *3 Please consult us separately for medical and automotive use.