Force Sensor

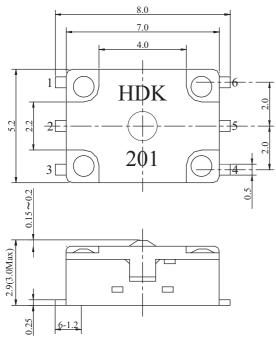
HFD-500

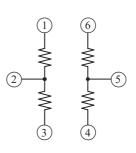
Utilizing long home-nurtured silicon micro-machining technology as core technology, we made it possible to precisely detect micro force less than 1N, which otherwise can not be achieved with conventional method.

■Features

- •Small Size, Low Profile Package Dimension 7.0 × 5.2 × 2.9mm
- •Capable of Micro-Force Detection with High Sensitivity, High Precision
- •High durability, withstanding overforce 45N, Repetitive Force more than 1 million cycles

■Outline & Dimensions





Terminal

1 CI IIIIII I				
1	Vcc			
2	+OUTPUT			
3	GND			
4	GND			
5	-OUTPUT			
6	Vcc			

$\blacksquare {\rm Specifications}$

1.Maximum Absolute Ratings

Item	Rating	Unit	Note
Maximum Force	10	N	
Destructive Force	45	N	Load speed:1mm/min
Supply Voltage	5.5	Vdc	
Storage Temperature	-30 ~ +85	°C	
Operating Temperature	-20 ~ +60	°C	

2.Rating(Vcc=3.3Vdc, Ta=25°C)

Item	Rating			TT '/	N. i
	Min.	Тур.	Max.	Unit	Note
Operating Force Range	0	-	5	N	
Supply Voltage	-	3.3	ı	Vdc	
Bridge Resistance	7	9	11	ΚΩ	
Offset Resistance	-10	-	10	mV	
Full Scale Span	-	100	•	mV	
Sensitivity	18	20	22	mV/N	
Linearity	-3	-	3	%FS	
Offset Temp. Characteristics	-5	-	5	mV	-20 ∼ +60°C
Sensitivity Temp. Characteristics	-0.1	-	0	mV/N/°C	