



1. Compact, lightweight design
2. High Sensitivity assures it picks up even micro level Impact and vibration.
3. Rugged construction survive impact and vibration Stresses.
4. Requires no bias voltage.

Application

1. Intruder sensors at windows or doors
2. Burglar alarms for showcases and safes
3. Vibration sensors for car audio equipment

□ Notice

1. The component should be fixed at the place where the main axis of sensor has same direction as the vibration axis.
2. Please avoid applying DC-bias by connecting DC blocking capacitor or some other way because, otherwise, the component may be damaged.

Specification

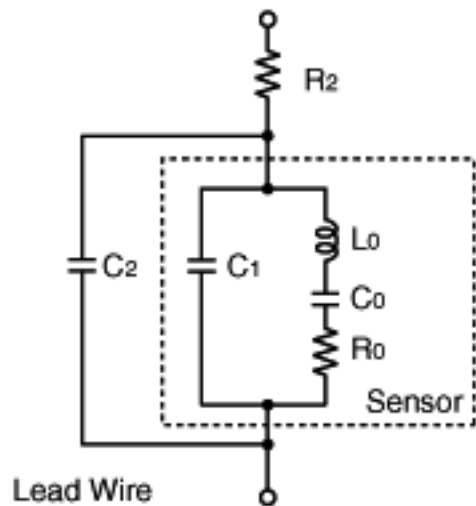
Global Part Number	PKGS-00LD-R
Previous Part Number	
Primary Axis Inclined Angle	0°
Sensitivity (Typ.)	0.840pC/G
Capacitance (Typ.)	770pF
Insulation Resistance (min.)	500M ohm
Resonant Frequency (Typ.)	20kHz
Non-linearity (Typ.)	1%
Transverse Sensitivity (Typ.)	2%
Shock Resistance	1500G (0.5ms duration)
Min Operating Temp. Range	-40°C
Max Operating Temp. Range	85°C
Min Storage Temp. Range	-40°C
Max Storage Temp. Range	85°C
Note	1G=9.80665m/s ²
Sensitivity Type	Electric charge sensitivity type

Minimum Quantity

180mm Paper Tape	
180mm Embossed Tape	2000
330mm Paper Tape	
330mm Embossed Tape	
Bulk Case	
Bulk(Bag)	
Ammo Pack	
320Reel	
Magazine	
Box	

Please approve our product specifications or to transact the approval sheet for product specifications before ordering. Please read rating and !Cautions first.

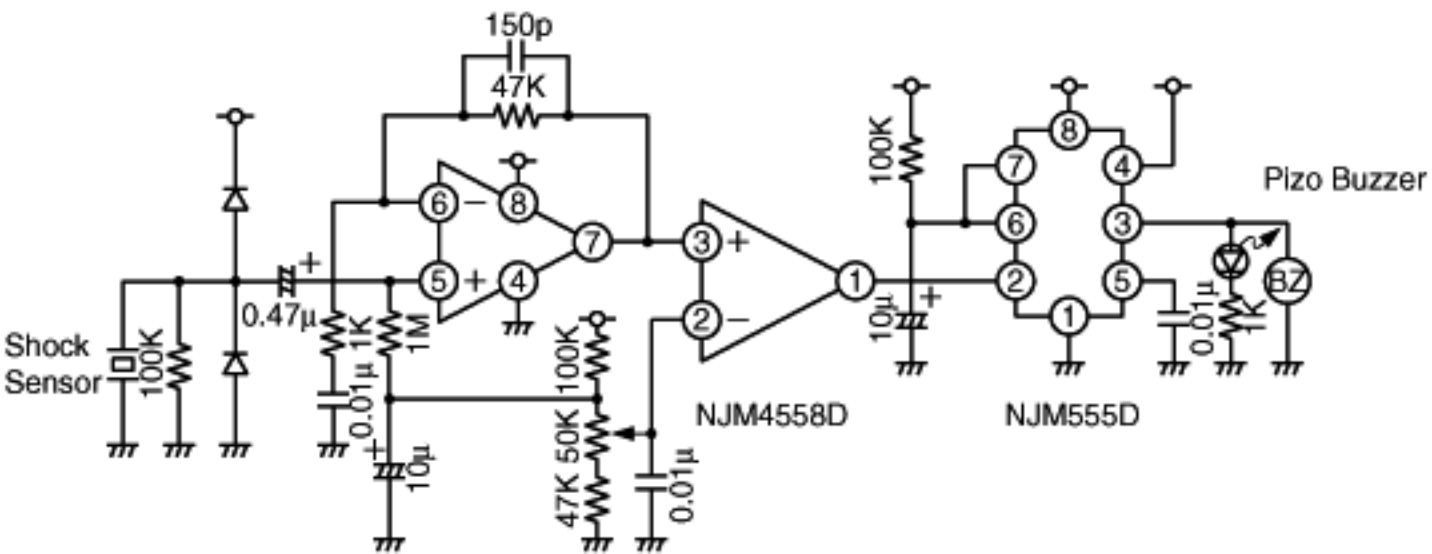
Product specifications in this catalog are as of January 2008.



C_f : Free Capacitance
 $= C_0 + C_1 + C_2$

Part Number	R_0 (ohm)	R_2 (ohm)	L_0 (mH)	C_0 (pF)	C_1 (pF)	C_2 (pF)	C_f (pF)
PKS1-4A1	1950	50	1050	1200	7800	900	9900
PKS1-4A10	1950	-	1050	1200	7800	-	9000
PKS1-4B1	1950	50	1050	1200	7800	900	9900

Application Circuit



● Part Numbering

Shock Sensors (Lead Type)

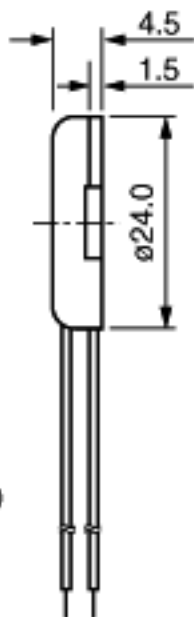
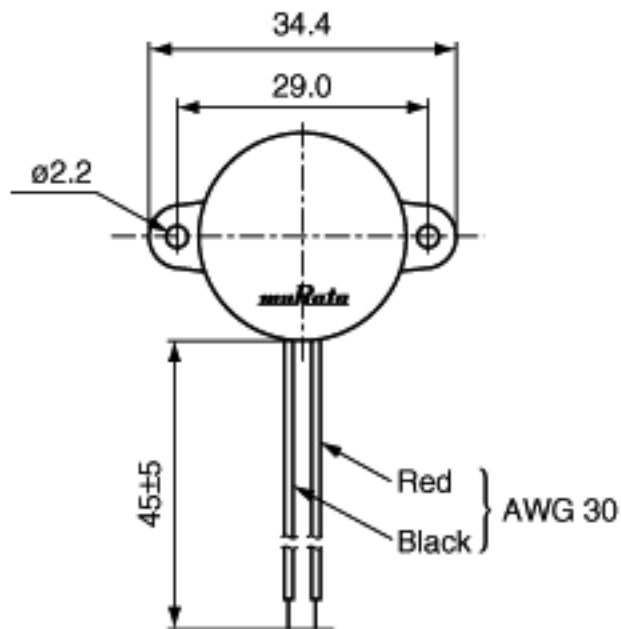
(Part Number)

PK	S1	-4A	1
①	②	③	④

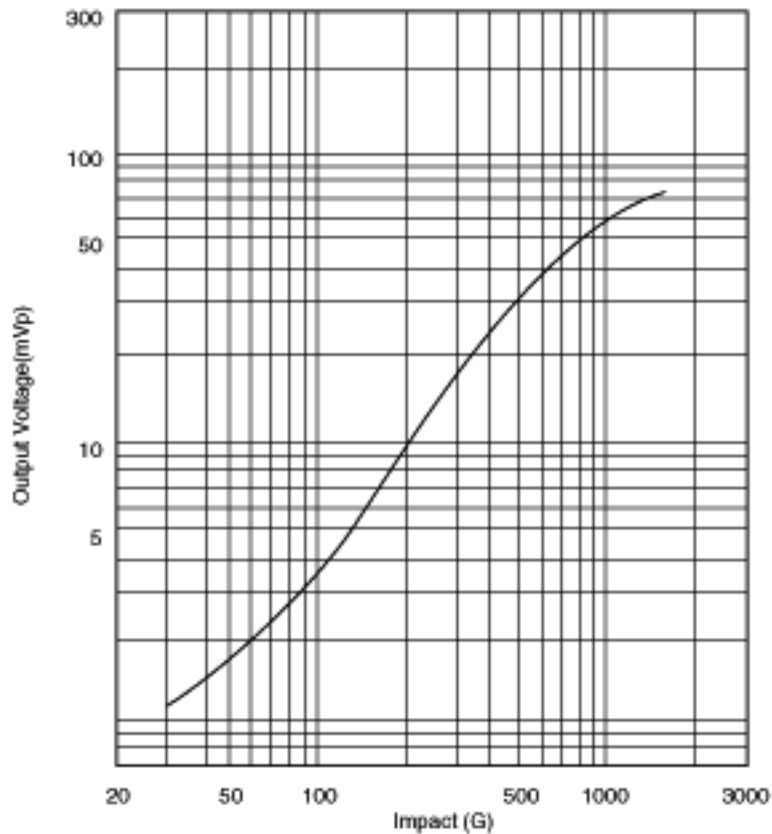
- ① Product ID
- ② Series
- ③ Characteristics
- ④ Individual Specification Code

* "(Part Number)" shows only an example which might be different from actual part number.

* Any other definitions than "① Product ID" might have different digit number from actual part number.

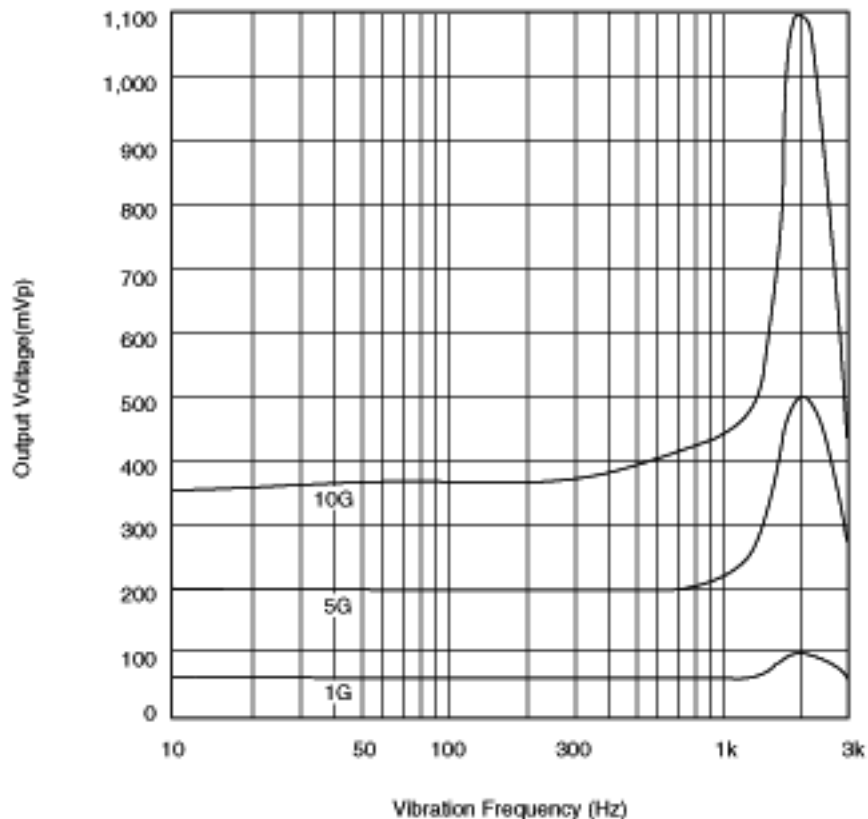


(in mm)



*Impact wave is 1/2 sine wave.

Output voltage is nearly proportional to the acceleration of impact.



Frequency Response is nearly flat at vibration frequencies up to 1kHz.