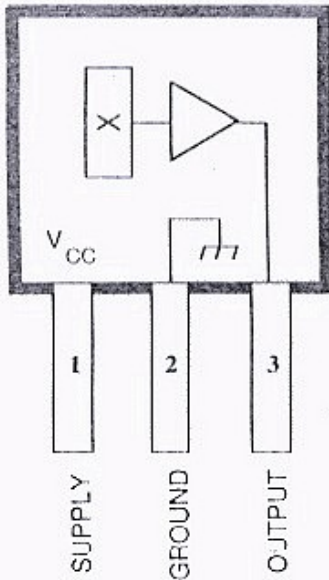


霍爾IC 3503



Dwg. No. PH-006

Pinning is shown viewed from branded side.

#### ABSOLUTE MAXIMUM RATINGS

Supply Voltage,  $V_{CC}$  ..... 8 V  
 Magnetic Flux Density, B ..... Unlimited  
 Operating Temperature Range,  
 $T_A$  ..... -20°C to +85°C  
 Storage Temperature Range,  
 $T_S$  ..... -65°C to +150°C

## RATIOMETRIC, LINEAR HALL EFFECT SENSORS

Type UGN3503U and UGN3503UA Hall effect sensors accurately track extremely small changes in magnetic flux density—changes generally too small to operate Hall effect switches.

As motion detectors, gear tooth sensors, and proximity detectors, they are magnetically driven mirrors of mechanical events. As sensitive monitors of electromagnets, they can effectively measure a system's performance with negligible system loading while providing isolation from contaminated and electrically noisy environments.

Each Hall effect integrated circuit includes a Hall sensing element, linear amplifier, and emitter-follower output stage. Problems associated with handling tiny analog signals are minimized by having the Hall cell and amplifier on a single chip.

The UGN3503U and UGN3503UA are rated for continuous operation over the temperature range of -20°C to +85°C.

#### FEATURES

- Extremely Sensitive
- Flat Response to 23 kHz
- Low Noise Output
- 4.5 V to 6 V Operation
- Magnetically Optimized Package

Always order by complete part number:

Part Number	Package
UGN3503U	3-Pin Mini-SIP
UGN3503UA	3-Pin Ultra-Mini-SIP