

**GDH Series, Half Pitch, Low Profile, SMT**

**Features**

- Bifurcated gold wiping contact system (gold to gold contact system)
- Tape seal standard, with corner notch
- Vacuum pick and place compatible
- Half pitch .050" terminal spacing
- Shipped in the OFF position, ON position on request



**Typical performance characteristics**

|                               |                        |
|-------------------------------|------------------------|
| Contact configuration         | SPST                   |
| Contact rating, non-switching | 100 mA @ 50 VDC        |
| Contact rating, switching     | 25 mA @ 24 VDC         |
| Electrical life               | 1,000 cycles           |
| Mechanical life               | 1,000 cycles           |
| Contact resistance            | max 100 mOhm           |
| Insulation resistance         | min 100 MOhm           |
| Dielectric strength           | 300 VAC for 1 min      |
| Actuation force               | 6 N (600 gf) max       |
| Actuator travel               | 1.00 mm (.039) average |

**Environmental specification**

|                        |                                    |
|------------------------|------------------------------------|
| Operating temperature  | -35 to +85°C                       |
| Storage temperature    | -45 to +100°C                      |
| Solder heat resistance | 265°C/10s wave or 260°C/10s reflow |

**Material specifications**

|                           |                          |
|---------------------------|--------------------------|
| Contacts                  | copper alloy gold finish |
| Actuator                  | lcp                      |
| Terminals                 | copper alloy gold finish |
| Base                      | pps                      |
| Cover                     | pps                      |
| Tape seal                 | polyimide film           |
| RoHS Directive 2002/95/EC | compliant                |

|                    |  |                       |                       |                       |                        |           |          |           |           |
|--------------------|--|-----------------------|-----------------------|-----------------------|------------------------|-----------|----------|-----------|-----------|
| <b>Product key</b> | Typical product key                    |                       |                       |                       | <b>GDH</b>             | <b>04</b> | <b>S</b> | <b>TR</b> | <b>04</b> |
| <b>Type</b>        | GDH Half pitch, low profile DIP switch |                       |                       |                       |                        |           |          |           |           |
| <b>Positions</b>   | <b>02</b> 2 positions                  | <b>04</b> 4 positions | <b>06</b> 6 positions | <b>08</b> 8 positions | <b>10</b> 10 positions |           |          |           |           |
| <b>Terminal</b>    | <b>S</b> surface mount - SMT           |                       |                       |                       |                        |           |          |           |           |
| <b>Packaging</b>   | <b>blank</b> tube                      |                       |                       |                       |                        |           |          |           |           |
|                    | <b>TR</b> tape & reel                  |                       |                       |                       |                        |           |          |           |           |
| <b>Sealing</b>     | <b>blank</b> tape seal                 |                       |                       |                       |                        |           |          |           |           |
|                    | <b>NTS</b> no tape seal                |                       |                       |                       |                        |           |          |           |           |
| <b>Material</b>    | <b>04</b> RoHS compliant               |                       |                       |                       |                        |           |          |           |           |

**GDH Series, Half Pitch, Low Profile, SMT (Continued)**

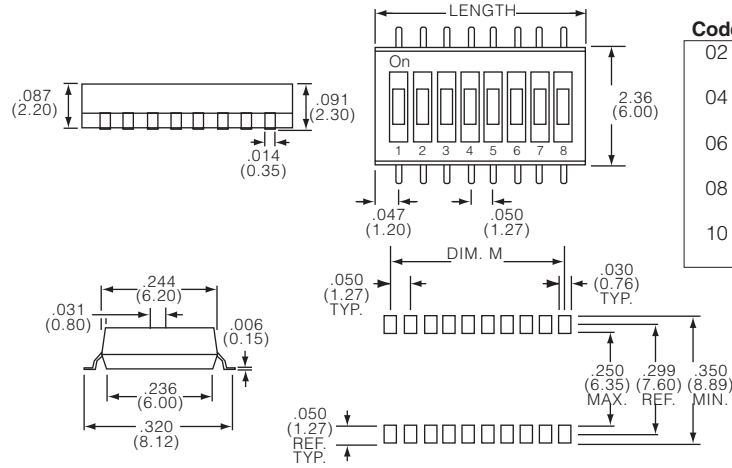
**Positions**



**Codes 02, 04, 06, 08, 10 2, 4, 6, 8 and 10 positions**



GDH0804



| Code | Poles | Length            | Dim M             |
|------|-------|-------------------|-------------------|
| 02   | 2     | 3.66mm<br>(.194)  | 1.27mm<br>(.100)  |
| 04   | 4     | 6.20mm<br>(.394)  | 3.81mm<br>(.300)  |
| 06   | 6     | 8.75mm<br>(.594)  | 6.35mm<br>(.500)  |
| 08   | 8     | 11.29mm<br>(.794) | 8.89mm<br>(.700)  |
| 10   | 10    | 13.82mm<br>(.994) | 11.43mm<br>(.900) |

| Product key       | Positions    | Terminal | Packaging   | Sealing   | Material       | Part Number        |
|-------------------|--------------|----------|-------------|-----------|----------------|--------------------|
| <b>GDH02S04</b>   | 2 positions  | SMT      | tube        | with seal | RoHS compliant | <b>1571983-1</b>   |
| <b>GDH02STR04</b> |              |          | tape & reel |           |                | <b>1571983-3</b>   |
| <b>GDH04S04</b>   | 4 positions  |          | tube        |           |                | <b>1571983-4</b>   |
| <b>GDH04STR04</b> |              |          | tape & reel |           |                | <b>1571983-5</b>   |
| GDH04STRNTS04     |              |          |             | no seal   |                | 1571983-6          |
| GDH06S04          | 6 positions  |          | tube        | with seal |                | 1571983-8          |
| <b>GDH06STR04</b> |              |          | tape & reel |           |                | <b>1571983-9</b>   |
| <b>GDH08S04</b>   | 8 positions  |          | tube        |           |                | <b>1-1571983-0</b> |
| <b>GDH08STR04</b> |              |          | tape & reel |           |                | <b>1-1571983-1</b> |
| GDH08STRNTS04     |              |          |             | no seal   |                | 1-1571983-2        |
| GDH10S04          | 10 positions |          | tube        | with seal |                | 1-1571983-3        |
| GDH10STR04        |              |          | tape & reel |           |                | 1-1571983-4        |

Preferred parts in bold print