# GLF71311T

## Nano-Current Consumed $I_Q$Smart™ Load Switch with Slew Rate

**Product Brief**

## DESCRIPTION

The GLF71311T is an **ultra-thin**, ultra-efficiency, 2A rated, Load Switch with integrated slew rate control. The best in class efficiency makes it an ideal chose for use in IoT, mobile, and wearable electronics.

The GLF71311T features ultra-efficient $I_Q$Smart™ technology that supports the lowest quiescent current ($I_Q$) and shutdown current ($I_{SD}$) in the industry. Low $I_Q$ and $I_{SD}$ solutions help designers to reduce parasitic leakage current, improve system efficiency, and increase battery lifetime.

The GLF71311T integrated slew rate control can also enhance system reliability by mitigating bus voltage swings during switching events. Where uncontrolled switches can generate high inrush currents that result in voltage droop and/or bus reset events, the GLF slew rate control specifically limits inrush currents during turn-on to minimize voltage droop.

GLF71311T Load Switch devices support an industry leading wide input voltage range and helps to improve operating life and system robustness. Furthermore, one device can be used in multiple voltage rail applications which helps to simplify inventory management and reduce operating cost.

GLF71311T Load Switch device is small utilizing a wafer level chip scale package with 4 bumps in a 0.97 mm x 0.97 mm die size and a 0.5 mm bump pitch. GLF71311T is ultra-thin: 0.35 mm Typ, 0.4 mm Max.

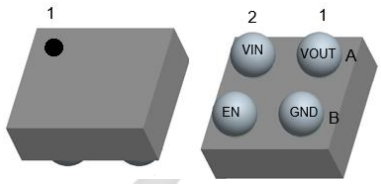
## FEATURES

- Ultra-Low $I_Q$: 7 nA Typ @ 5.5 $V_{IN}$
- Ultra-Low $I_{SD}$: 28 nA Typ @ 5.5 $V_{IN}$
- Low $R_{ON}$ : 31 mΩ Typ @ 5.5 $V_{IN}$
- $I_{OUT}$ Max: 2 A
- Wide Input Range: 1.1 V to 5.5 V
  6 Vabs max
- Controlled Rise Time: 335 us at 3.3 $V_{IN}$
- Internal EN Pull-Down Resistor
- Integrated Output Discharge Switch
- Ultra-Small: 0.97 mm x 0.97 mm
- Ultra-Thin: 0.35 mm Typ., 0.4 mm Max.

## APPLICATIONS

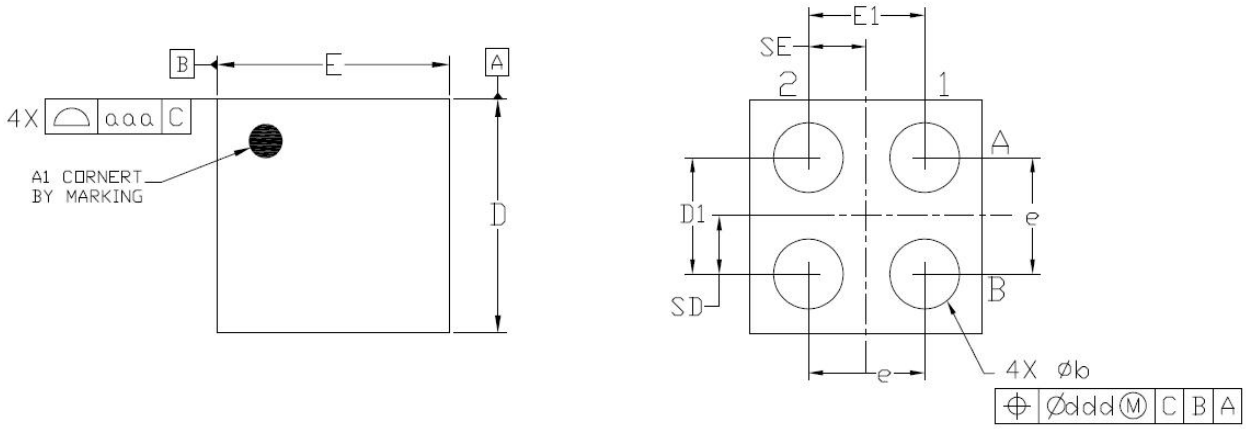
- Powered Credit Cards
- Thin Mobile Devices & Wearables
- Low Power Subsystems

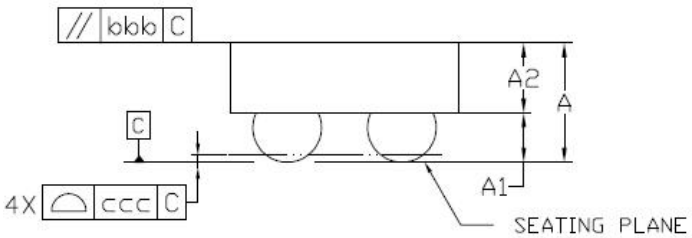
## PACKAGE




0.97 mm x 0.97 mm x 0.35 mm WLCSP

## PACKAGE OUTLINE



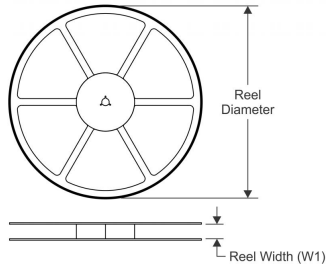

| Dimensional Ref. | | | |
|---|---|---|---|
| REF. | Min. | Nom. | Max. |
| A | 0.300 | 0.350 | 0.400 |
| A1 | 0.075 | 0.100 | 0.125 |
| A2 | 0.225 | 0.250 | 0.275 |
| D | 0.955 | 0.970 | 0.985 |
| E | 0.955 | 0.970 | 0.985 |
| D1 | 0.450 | 0.500 | 0.550 |
| E1 | 0.450 | 0.500 | 0.550 |
| b | 0.200 | 0.250 | 0.300 |
| e | 0.500 BSC | | |
| SD | 0.250 BSC | | |
| SE | 0.250 BSC | | |
| Tol. of Form&Position | | | |
| aaa | 0.10 | | |
| bbb | 0.10 | | |
| ccc | 0.05 | | |
| ddd | 0.05 | | |

Notes

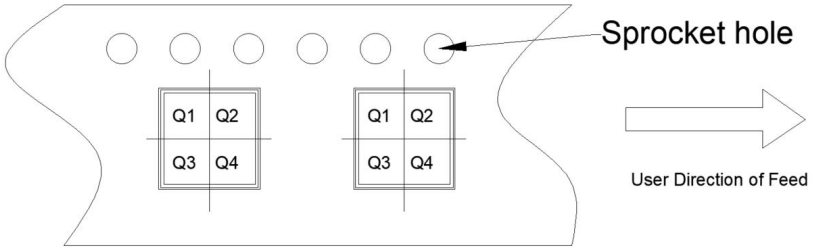
1. All DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1994.

## TAPE AND REEL INFORMATION

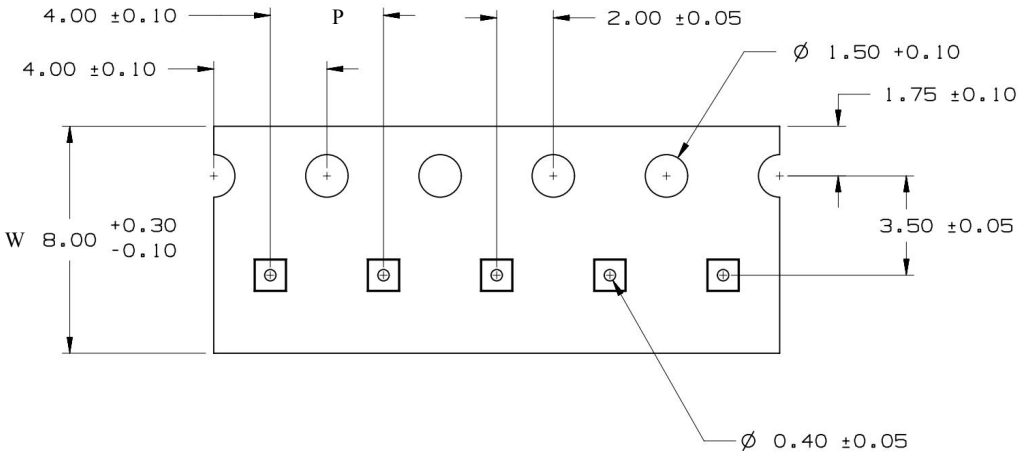
**REEL DIMENSIONS**

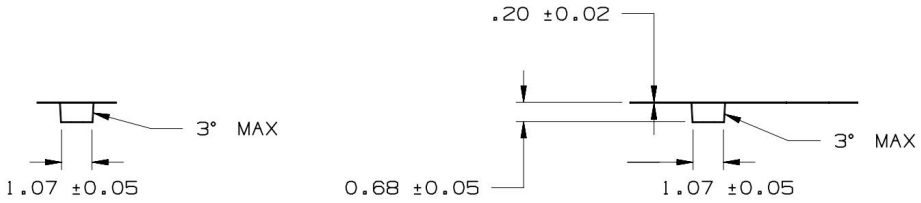



**QUADRANT ASSIGNMENTS PIN 1 ORIENTATION TAPE**




**TAPE DIMENSIONS**




$A_o$ $K_o$ $B_o$

| Device | Package | Pins | SPQ | Reel Diameter(mm) | Reel Width W1 | A0 | B0 | K0 | P | W | Pin1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GLF71310T | WLCSP | 4 | 3000 | 180 | 9 | 1.07 | 1.07 | 0.68 | 4 | 8 | Q1 |
| GLF71311T | WLCSP | 4 | 3000 | 180 | 9 | 1.07 | 1.07 | 0.68 | 4 | 8 | Q1 |
| GLF71312T | WLCSP | 4 | 3000 | 180 | 9 | 1.07 | 1.07 | 0.68 | 4 | 8 | Q1 |
| GLF71313T | WLCSP | 4 | 3000 | 180 | 9 | 1.07 | 1.07 | 0.68 | 4 | 8 | Q1 |

Remark:

A0: Dimension designed to accommodate the component width

B0: Dimension designed to accommodate the component length

C0: Dimension designed to accommodate the component thickness

W: Overall width of the carrier tape

P: Pitch between successive cavity centers

单击下面可查看定价，库存，交付和生命周期等信息

>>GLF(杰夫微)