

## DESCRIPTION

The GLF71300H and GLF71301H are an ultra-efficiency, 2.0 A rated, Load Switch with integrated slew rate control. The best in class efficiency makes it an ideal choice for use in IoT, mobile, and wearable electronics.

The GLF71300H and GLF71301H support the lowest quiescent current (I<sub>Q</sub>) and shutdown current (I<sub>SD</sub>) in the industry. Low I<sub>Q</sub> and I<sub>SD</sub> solutions help designers to reduce parasitic leakage current, improve system efficiency, and increase battery lifetime.

The 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 GLF71300H and GLF71301H slew rate control specifically limits inrush current during turn-on to minimize voltage droop.

The GLF71300H and GLF71301H 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 reduces operating cost.

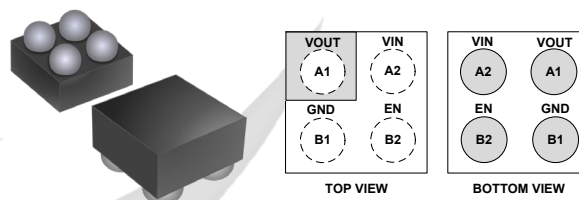
## FEATURES

- Ultra-Low I<sub>Q</sub> : 1 nA Typ at 5.5 V<sub>IN</sub>
- Ultra-Low I<sub>SD</sub> : 19 nA Typ at 5.5 V<sub>IN</sub>
- Low R<sub>ON</sub> : 34 mΩ Typ at 5.5 V<sub>IN</sub>
- I<sub>OUT</sub> Max : 2.0 A
- Wide Input Range: 1.1 V to 5.5 V  
6 V<sub>ABS</sub> Max
- Controlled Rise Time: 430 μs at 3.3V<sub>IN</sub>
- Internal EN Pull-Down Resistor
- Integrated Output Discharge Switch
- Wide Operating Temperature Range:  
- 40 °C to 105 °C
- Ultra-Small: 0.77 mm x 0.77 mm

## APPLICATIONS

- Wearables
- Data Storage, SSD
- Mobile Devices
- Low Power Subsystems

## PACKAGE

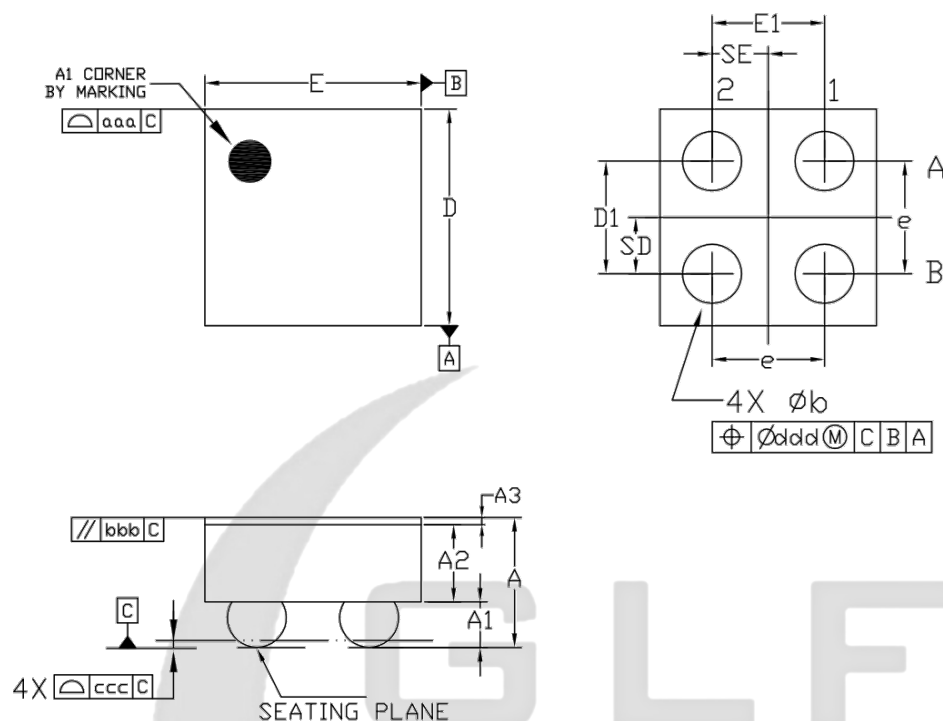


0.77 mm x 0.77 mm x 0.46 mm WLCSP

## DEVICE INFORMATION

Part Number	Top Mark	Vout Rise Time at 3.3V <sub>in</sub> (Typ)	R <sub>ON</sub> (Typ) at 5.5 V	Output Discharge	EN Activity	Package
GLF71300H	h	430 μs	34 mΩ	NA	High	0.77 mm x 0.77 mm x 0.46 mm WLCSP
GLF71301H	P			85 Ω		

## PACKAGE OUTLINE

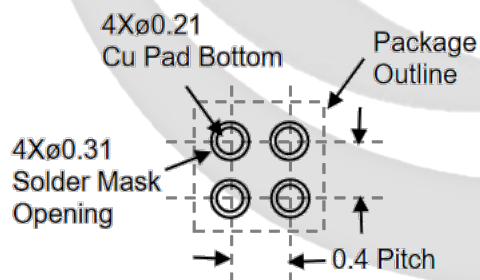


Dimensional Ref.			
REF.	Min.	Nom.	Max.
A	0.410	0.460	0.510
A1	0.135	0.160	0.185
A2	0.250	0.275	0.300
A3	0.020	0.025	0.030
D	0.755	0.770	0.785
E	0.755	0.770	0.785
D1	0.350	0.400	0.450
E1	0.350	0.400	0.450
b	0.170	0.210	0.250
e	0.400 BSC		
SD	0.200 BSC		
SE	0.200 BSC		
Tol. of Form&Position			
aaa	0.10		
bbb	0.10		
ccc	0.05		
ddd	0.05		

## Recommended Footprint

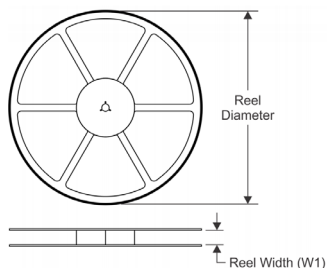
## Notes

1. ALL DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES)
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1994.
3. A3: BACKSIDE LAMINATION

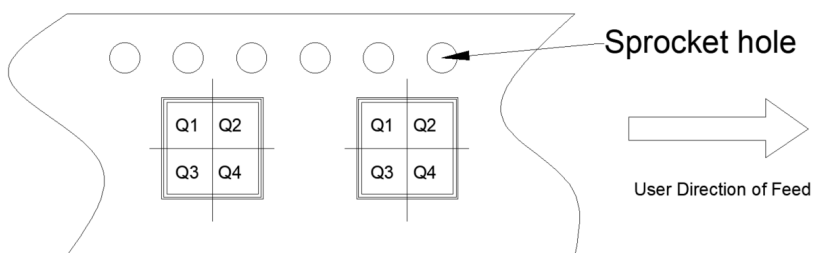


## TAPE AND REEL INFORMATION

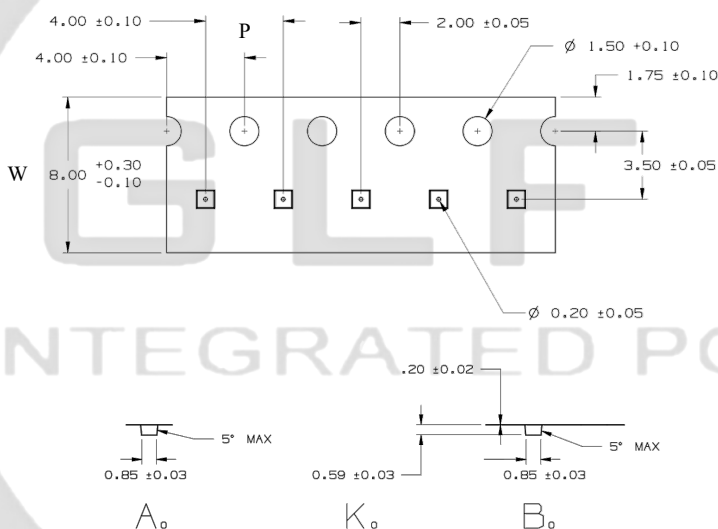
## REEL DIMENSIONS



### QUADRANT ASSIGNMENTS PIN 1 ORIENTATION TAPE



## TAPE DIMENSIONS



Device	Package	Pins	SPQ	Reel Diameter (mm)	Reel Width W1	A0	B0	K0	P	W	Pin1
GLF71300H	WLCSP	4	4000	180	9	0.85	0.85	0.59	4	8	Q1
GLF71301H											

Remark:

A0: Dimension designed to accommodate the component width

B0: Dimension designed to accommodate the component length

K0: Dimension designed to accommodate the component thickness

W: Overall width of the carrier tape

P: Pitch between successive cavity centers