

DESCRIPTION

The GLF72510 Load Switch is a fully integrated 2A NMOS load switch with I_QSmart™ advanced technology. The device is targeted for the mobile computing and data storage markets as a high performance, low cost solution for load switch applications.

The GLF72510 has a constant low on-resistance of 27 mΩ at room temperature. The fixed rise time helps prevent undesirable inrush current when turned on and the internal EN pin pulldown resistor ensures the device remains in the shutdown mode when disabled. In shutdown mode the GLF72510 draws only 6 nA typical at 3.6 V input supply voltage.

The GLF72510 is available in a wafer level chip scale package (WLCSP) measuring 0.97 mm x 0.97 mm x 0.55mm with a 0.5 mm pitch. This allows the user to save board space and increase cost savings.

The GLF72510 features a reverse current blocking protection. When the GLF72510 is disabled, it prevents reverse current flowing from the output to the input source.

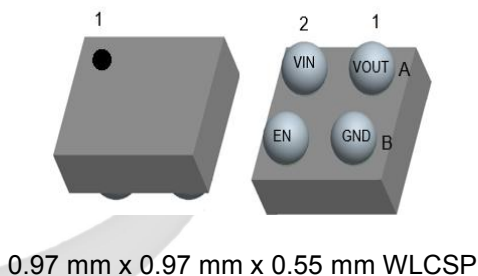
FEATURES

- Supply Voltage Range : 0.8 V to 3.6 V
- Low R_{ON} : 27 mΩ Typ at Supply Voltage Range
- I_{OUT} Max : 3 A
- Ultra-Low I_Q :
 - 50 nA Typ at 0.8 V_{IN}
 - 60 nA Typ at 1.0 V_{IN}
 - 80 nA Typ at 1.2 V_{IN}
- Integrated Slew Rate Control Driver
- Reverse Current Blocking Protection When Disabled
- Internal EN Pull-Down Resistor
- HBM : 6 kV, CDM : 2 kV
- Ultra-Small : 0.97mm x 0.97mm x 0.55mm Wafer Level Chip Scale Package

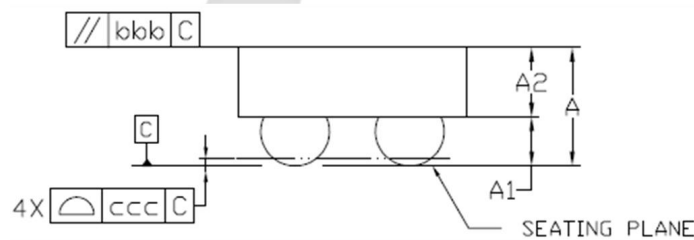
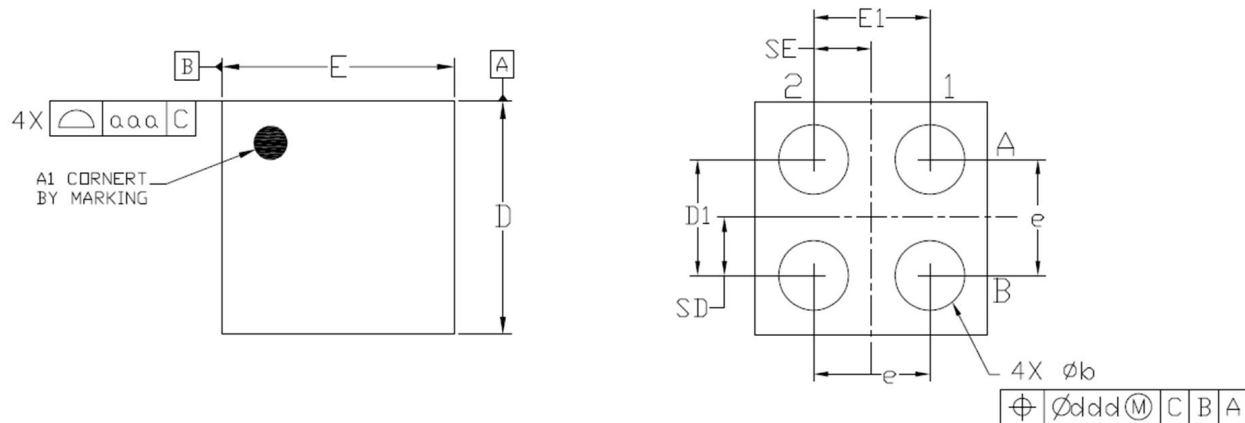
APPLICATIONS

- Wearables
- Data Storage, SSD
- Low Power Subsystems

PACKAGE



PACKAGE OUTLINE



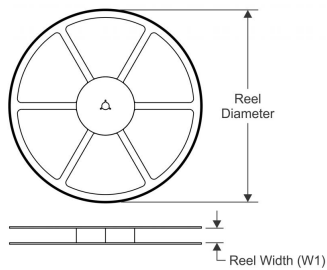
Dimensional Ref.			
REF.	Min.	Nom.	Max.
A	0.500	0.550	0.600
A1	0.225	0.250	0.275
A2	0.275	0.300	0.325
D	0.960	0.970	0.985
E	0.960	0.970	0.985
D1	0.450	0.500	0.550
E1	0.450	0.500	0.550
b	0.260	0.310	0.360
e	0.500 BSC		
SD	0.250 BSC		
SE	0.250 BSC		
Tol. of Form&Position			
aaa	0.10		
bbb	0.10		
ccc	0.05		
ddd	0.05		

Notes

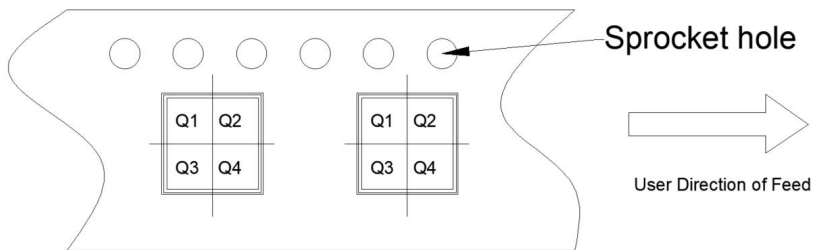
1. ALL DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1994.

TAPE AND REEL INFORMATION

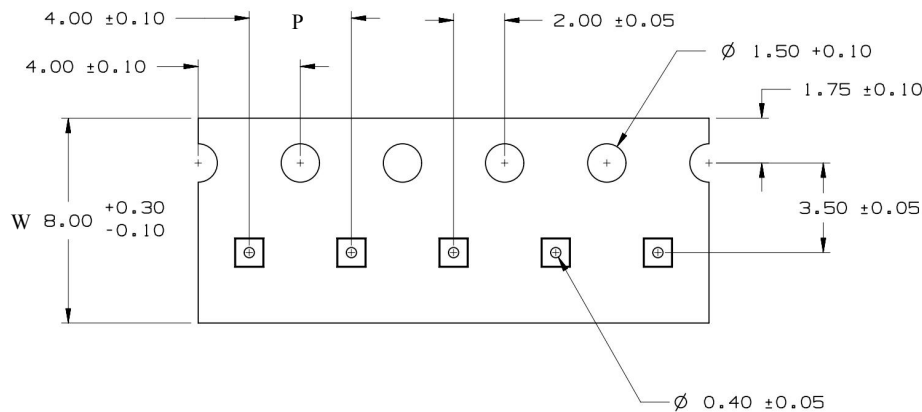
REEL DIMENSIONS



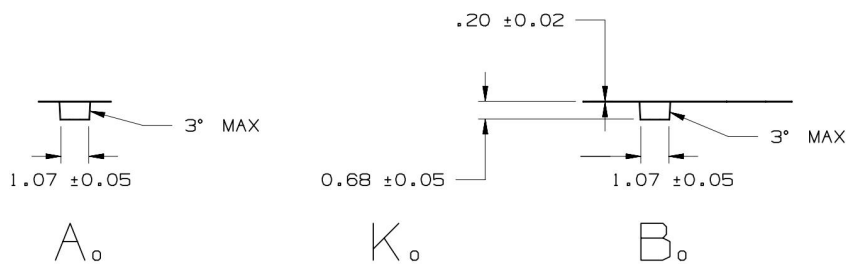
QUADRANT ASSIGNMENTS PIN 1 ORIENTATION TAPE



TAPE DIMENSIONS



POWER



Device	Package	Pins	SPQ	Reel Diameter(mm)	Reel Width W1	A0	B0	K0	P	W	Pin1
GLF72510	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