

DESCRIPTION

The GLF73710 is an IqSmart™ ultra-efficient, full battery protection switch with an accurate over charge voltage, over discharge voltage, and short circuit protection for lithium-Ion/Polymer battery safety.

The over discharge voltage protections keep a rechargeable battery working within the desired safe operating condition. When the battery voltage decreases below the over discharge detection voltage level, the GLF73710 switch is turned off immediately to cut off the battery power rail, consuming an ultra-low leakage current (I_{SD}) to save the battery. In addition, when the load current reaches the I_{SC} short circuit protection level, the GLF73710 switch is turned off and will maintain the off state to avoid any serious damage to system. The short circuit delay time avoids any false trigger which might open the switch.

When a charged battery cell is connected with the GLF73710, the GLF73710 remains in the off state and consumes an ultra-low leakage current (I_{SD}) until the V_{ON} voltage is applied to VOUT pin. Note that the GLF73710 is activated only by a V_{ON} voltage from a charger output.

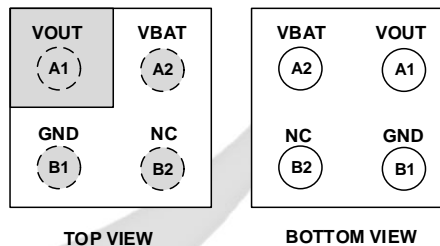
FEATURES

- V_{OD} , Over Discharge Detection: $2.88 V_{BAT}$
- Load Short Circuit Protection with Delay Time to avoid a false trigger
- GLF73710 is Activated by Applying V_{ON} to the VOUT Pin from Charger
- 1.5 A Continuous Charging Current Capability from VOUT to VBAT Pin
- Low R_{ON} : $31 m\Omega$ Typ. @ $3.6 V_{BAT}$
- Quiescent Current, $I_Q = 700 nA$ Typ @ $4.2 V_{BAT}$
- Shutdown Current, $I_{SD} = 35 nA$ Typ @ $V_{BAT} < V_{OD}$
- Latch-off at Over Discharge Detection and Short Circuit Protection. Apply V_{ON} to VOUT pin to turn on GLF73710 switch again
- 0.5 V Battery Minimum Voltage for Charging
- 0.97 mm x 0.97 mm x 0.55 mm Chip Scale Package
4 Bumps, 0.5 mm Pitch

APPLICATIONS

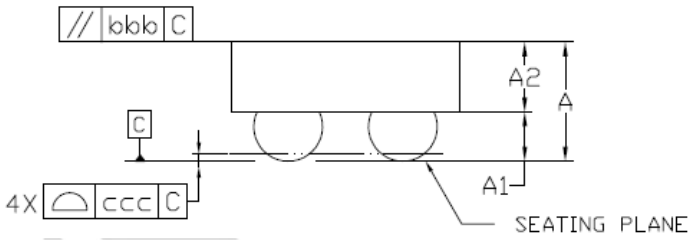
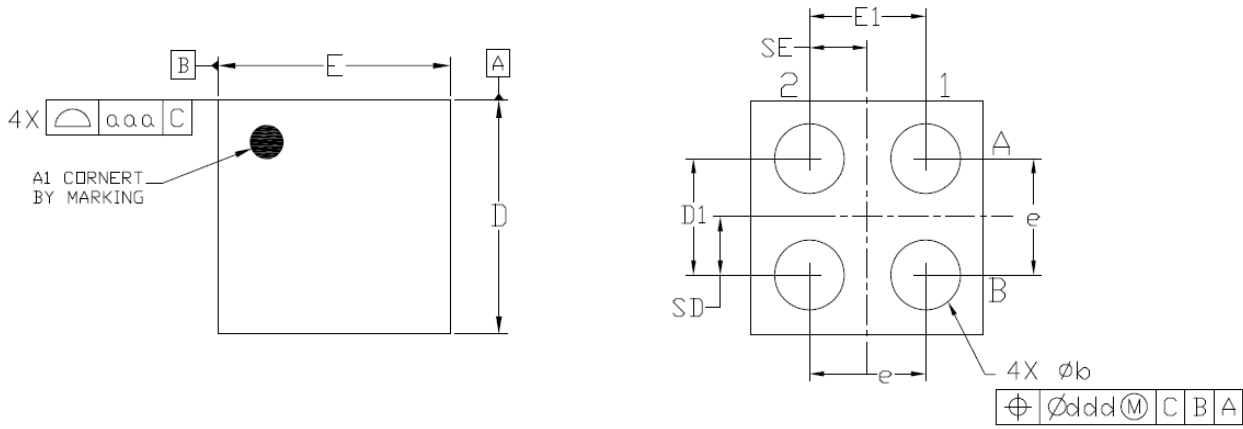
- BLE Wireless Earphone
- Wearables / IoT Devices
- Hearing Aid

PACKAGE



0.97 mm x 0.97 mm x 0.55 mm WLCSP

PACKAGE OUTLINE



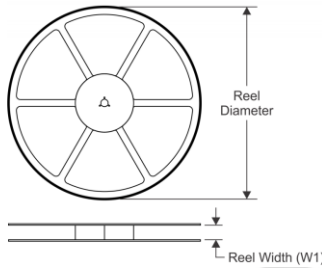
Dimensional Ref.			
REF.	Min.	Nom.	Max.
A	0.500	0.550	0.600
A1	0.225	0.250	0.275
A2	0.275	0.300	0.325
D	0.960	0.970	0.985
E	0.960	0.970	0.985
D1	0.450	0.500	0.550
E1	0.450	0.500	0.550
b	0.260	0.310	0.360
e	0.500 BSC		
SD	0.250 BSC		
SE	0.250 BSC		
Tol. of Form & Position			
aaa	0.10		
bbb	0.10		
ccc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

Notes

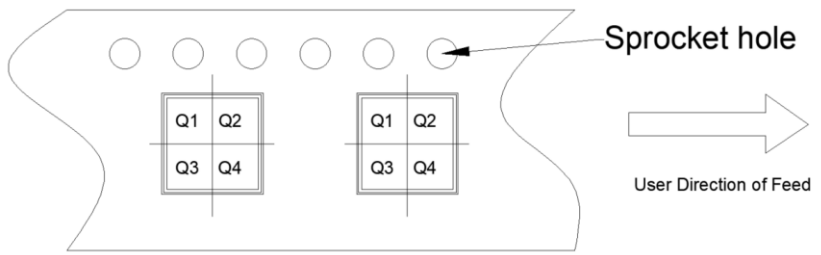
1. ALL DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1994.

TAPE AND REEL INFORMATION

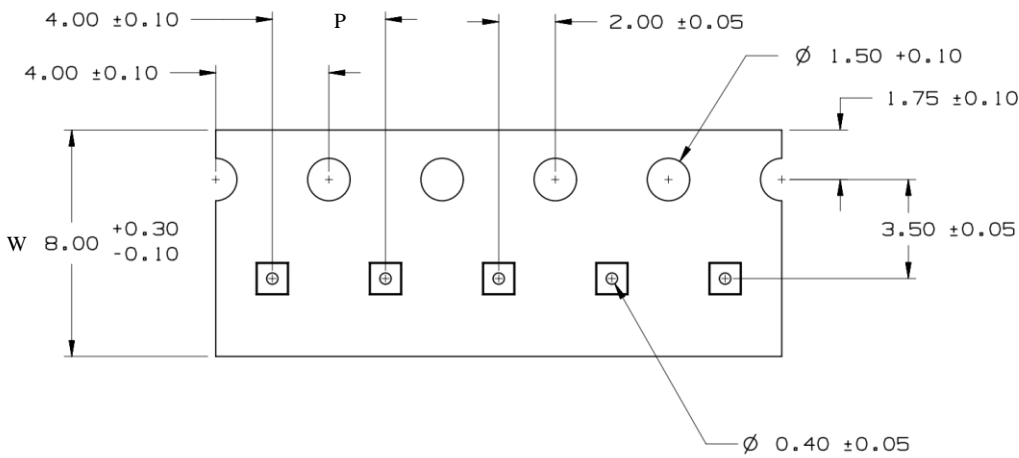
REEL DIMENSIONS



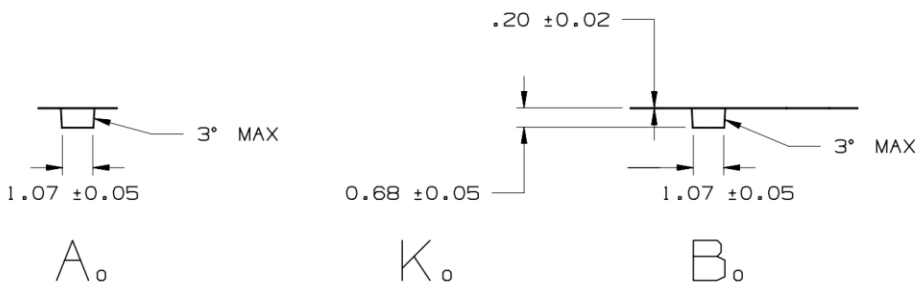
QUADRANT ASSIGNMENTS PIN 1 ORIENTATION TAPE



TAPE DIMENSIONS



OWER



Device	Package	Pins	SPQ	Reel Diameter(mm)	Reel Width W1	A0	B0	K0	P	W	Pin1
GLF73710	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\(杰夫微\)](#)