

DESCRIPTION

The GLF7210x product family is an advanced technology fully integrated I_QSmart™ load switch device with reverse current blocking (RCB) protection and slew rate control of the output voltage.

The GLF7210x product family offers industry leading reverse current blocking (RCB) protection performance, featuring an ultra-low threshold voltage. The GLF7210x product family minimizes reverse current flow in the event that the V_{OUT} voltage exceeds the V_{IN} voltage.

The GLF7210x product family has an industry leading power efficiency. The GLF7210x product family features an on-resistance (R_{ON}) as low as 37 mΩ typical at 5.5 V, reducing power loss during conduction. The GLF7210x product family also features ultra-low shutdown current (I_{SD}) to reduce power loss and battery drain in the off state. When EN is pulled low, and the output is grounded, the GLF7210x product family can achieve an I_{SD} as low as 20 nA typical at 5.5 V.

The GLF7210x product family of load switch device supports an industry leading wide input voltage range that helps to improve system operating life and overall performance. One GLF7210x device can be used in multiple voltage rail applications which helps mitigate inventory management and reduces BOM cost.

The GLF7210x product family utilizes a chip scale package with 4 bumps in a 0.77 mm x 0.77 mm x 0.46 mm die size and a 0.4 mm pitch.

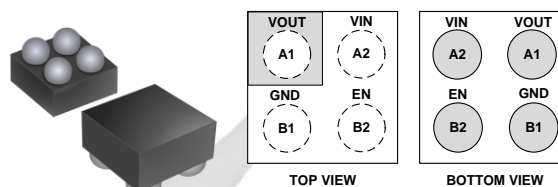
FEATURES

- Wide Input Range: 1.5 V to 5.5 V
6 V_{abs} max
- Ultra-Low I_Q: 0.45 μA Typ at 5.5 V_{IN}
- Ultra-Low I_{SD}: 20 nA Typ at 5.5 V_{IN}
- Low R_{ON}: 37 mΩ Typ at 5.5 V_{IN}
- I_{OUT} Max: 2 A
- Reverse Current Blocking Protection
- Controlled V_{OUT} Rise Time
- Internal EN Pull-up/down Resistor on EN Pin
- Integrated Output Discharge Switch:
GLF72101, GLF72103, GLF72105

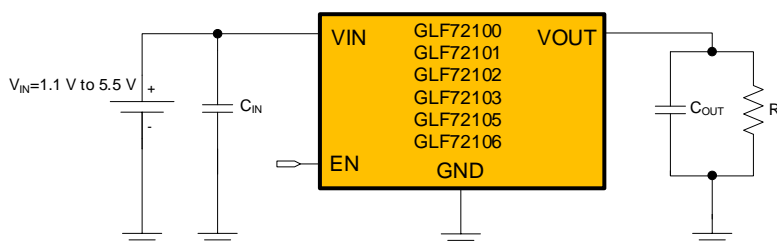
APPLICATIONS

- Portable Devices
- Wearable Devices
- Low Power Subsystems
- Smart IoT Devices

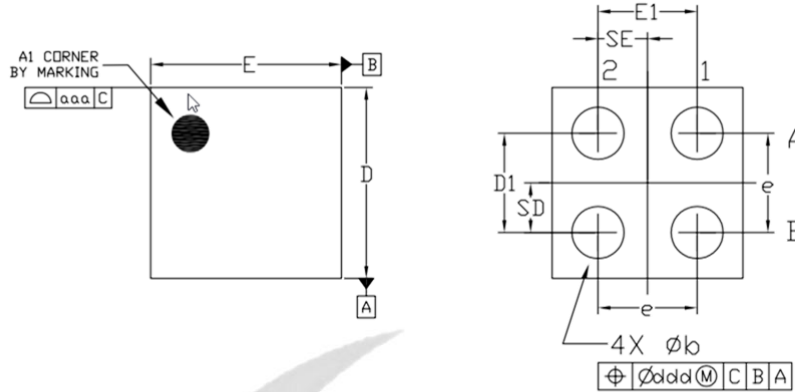
PACKAGE



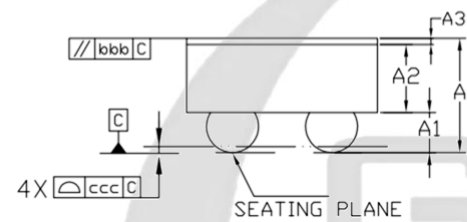
APPLICATION DIAGRAM



PACKAGE OUTLINE



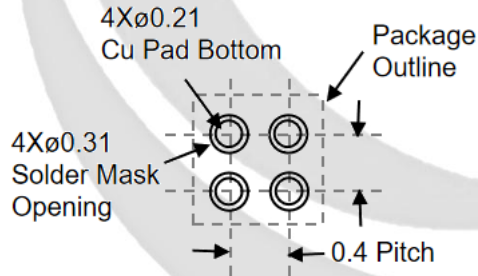
Dimensional Ref.			
REF.	Min.	Nom.	Max.
A	0.410	0.460	0.510
A1	0.135	0.160	0.185
A2	0.250	0.275	0.300
A3	0.020	0.025	0.030
D	0.755	0.770	0.785
E	0.755	0.770	0.785
D1	0.350	0.400	0.450
E1	0.350	0.400	0.450
b	0.170	0.210	0.250
e	0.400 BSC		
SD	0.200 BSC		
SE	0.200 BSC		
Tol. of Form&Position			
aaa	0.10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



Notes

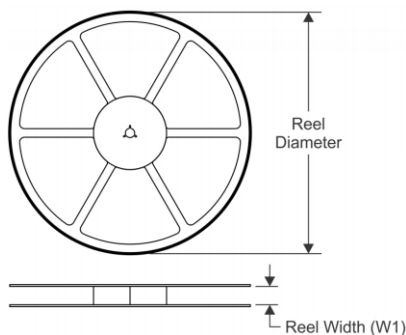
1. ALL DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES)
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1994.
3. A3: BACKSIDE LAMINATION

Recommended Footprint

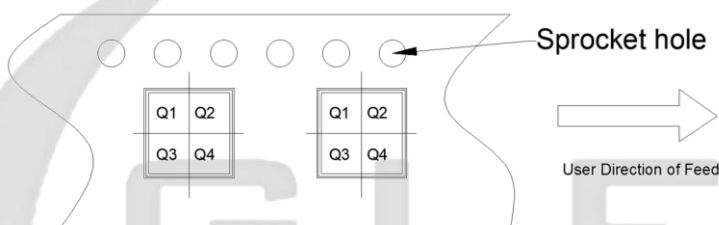


TAPE AND REEL INFORMATION

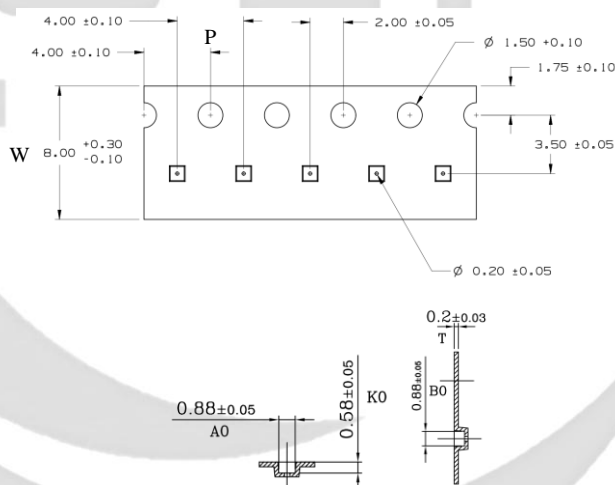
Reel Dimensions



Quadrant Assignments PIN1 Orientation Tape



Tape Dimensions



Device	Package	Pins	SPQ	Reel Diameter (mm)	Reel Width W1	A0	B0	K0	P	W	Pin1
GLF72100	WLCSP	4	4000	179	9	0.88	0.88	0.58	4	8	Q1
GLF72101	WLCSP	4	4000	179	9	0.88	0.88	0.58	4	8	Q1
GLF72102	WLCSP	4	4000	179	9	0.88	0.88	0.58	4	8	Q1
GLF72103	WLCSP	4	4000	179	9	0.88	0.88	0.58	4	8	Q1
GLF72105	WLCSP	4	4000	179	9	0.88	0.88	0.58	4	8	Q1
GLF72106	WLCSP	4	4000	179	9	0.88	0.88	0.58	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
- P1: Pitch between successive cavity centers