

## DESCRIPTION

The GLF8114 is a low quiescent current, peak current mode PWM synchronous step-down DC/DC converter. The device integrates switches capable of delivering an output current up to 4 A.

The GLF8114 operates over a wide input voltage range from 2.5 V to 5.5 V and runs in 1.3 MHz switching frequency to minimize the PCB and external components' size. The GLF8114 can automatically switch between PWM in heavy load operation and PFM for light-load operation to minimize the switch loss.

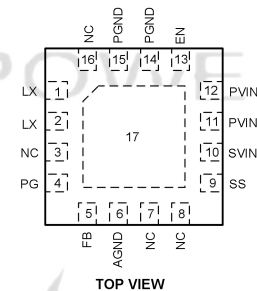
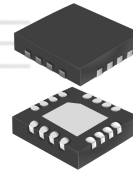
## APPLICATIONS

- Solid State Drives
- Core Chipset Power Supplier
- Embedded / Portable Computing

## FEATURES

- Supply Voltage Range: 2.5 V to 5.5 V
- 4 A Output Current
- 1.3 MHz switching frequency
- Low  $I_Q$ : 21  $\mu$ A Typ at 5  $V_{IN}$
- Low  $I_{SD}$ : 6 nA at 5  $V_{IN}$
- Efficiency up to 94 %
- Peak current mode control
  - Power Save Mode for Light Load
  - Internal Compensation
- Cycle-by-Cycle Over Current Protection
- Thermal Shutdown Protection
- Adjustable Soft Start Time
- Power Good Window Comparator

## PACKAGE

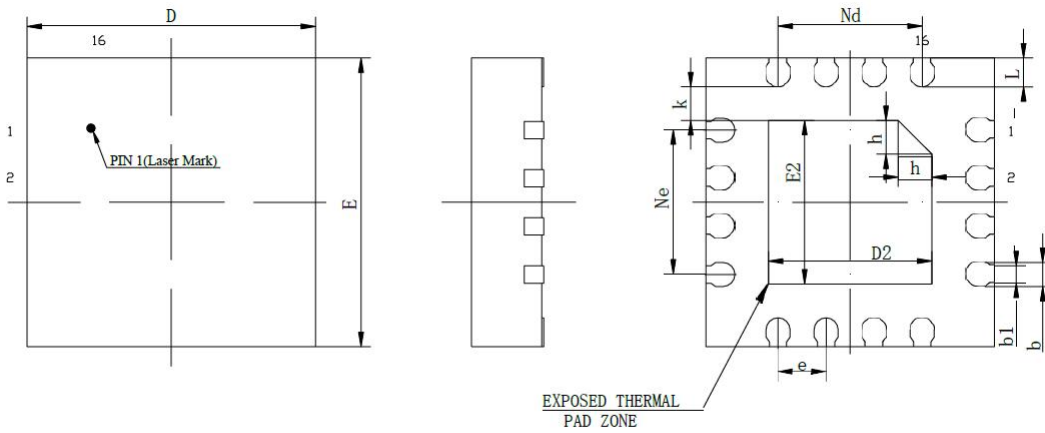


3 mm x 3 mm QFN-16L

## DEVICE INFORMATION

Part Number	Top Mark	Package Type
GLF8114-Q3G7	FK	3 mm x 3 mm QFN-16L

**PACKAGE OUTLINE**



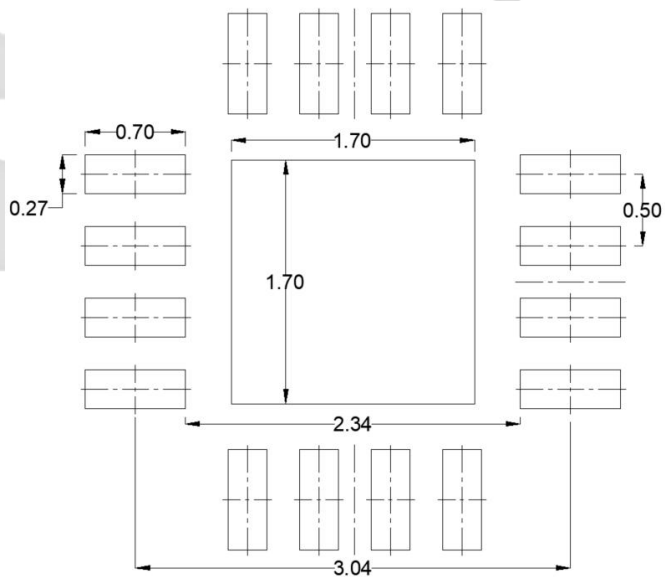
TOP VIEW

BOTTOM VIEW

SIDE VIEW

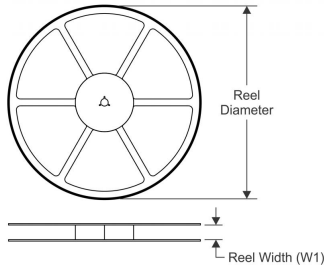
SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	0.70	0.75	0.80
	0.80	0.85	0.90
	0.85	0.90	0.95
A1	0	0.02	0.05
b	0.20	0.25	0.30
b1	0.18REF		
c	0.203REF		
D	2.90	3.00	3.10
D2	1.60	1.70	1.80
e	0.50BSC		
Ne	1.50BSC		
Nd	1.50BSC		
E	2.90	3.00	3.10
E2	1.60	1.70	1.80
L	0.25	0.30	0.35
h	0.30	0.35	0.40
k	0.30	0.35	0.40

**Recommended Footprint**

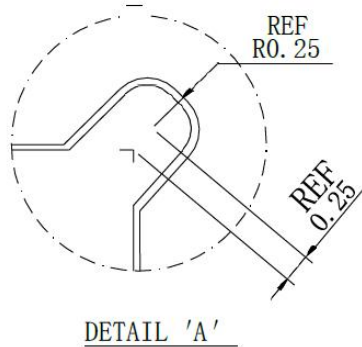
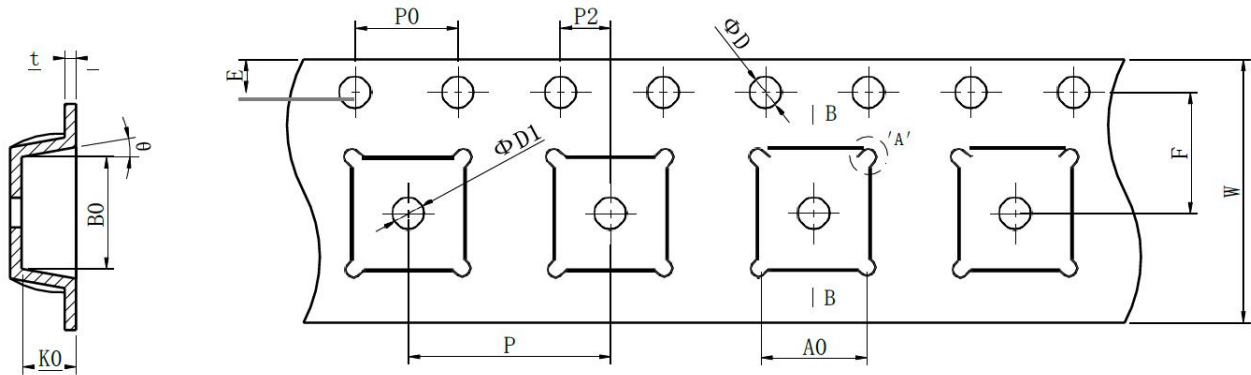
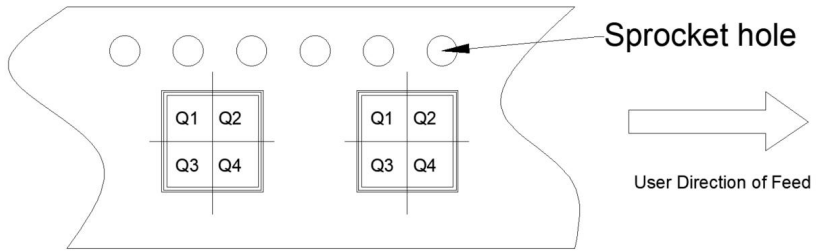


**TAPE AND REEL INFORMATION**

**REEL DIMENSIONS**



**QUADRANT ASSIGNMENTS PIN 1 ORIENTATION TAPE**



Device	Package	Pins	SPQ	Reel Diameter (mm)	Reel Width W1	A0	B0	K0	P	W	Pin1
GLF8114-Q3G13	QFN3x3	16	5000	329	12.4	3.3	3.3	1.1	8	12	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