

### DESCRIPTION

The GLF79110 are a family of ultra-efficient  $I_{QSmart}^{TM}$  low dropout regulators designed for wearables and IoT devices which require ultra-low quiescent current.

The GLF79110 provides up to 150 mA output current with typical quiescent current of only 0.8  $\mu A$ . In shutdown mode, the GLF79110 only draws a typical 4 nA from the supply. The typical dropout voltage is 62 mV or less in each output voltage rating.

The GLF79110 also provides short circuit current limiting of 250 mA and fast transient response from zero to maximum load. The combination of low power, protection features and small size make the GLF79110 ideal for portable and battery powered applications.

The GLF79110 is available in 0.97 mm x 0.97 mm x 0.55 mm wafer level chip scale package (WLCSP).

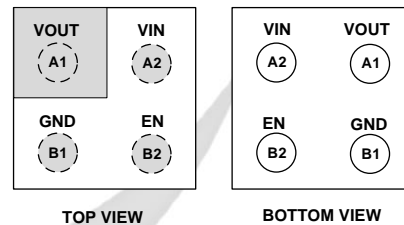
### FEATURES

- Ultra-Low Quiescent Current,  $I_Q$ :
  - 0.8  $\mu A$  Typ @ no load
- Ultra-Low Shutdown Current,  $I_{SD}$ :
  - 10 nA Max @  $V_{OUT(NOM)} + 1 V$
- Output Voltage Accuracy:  $\pm 2.5 \%$
- Low Dropout: 62 mV Typ at 150 mA
- 150 mA Guaranteed Output Current
- Over Current Protection and Current Foldback
- Compatible with Ceramic Capacitor
- Operating Temperature Range: -40 to 85  $^{\circ}C$
- HBM: 6 kV, CDM: 2 kV
- Ultra-Small: 0.97 mm x 0.97 mm WLCSP

### APPLICATIONS

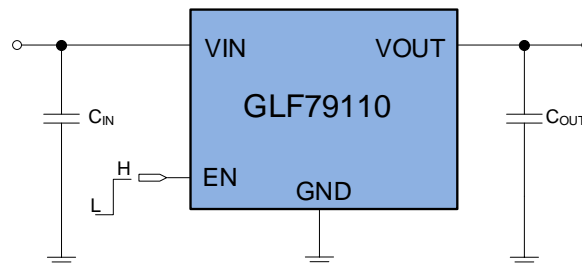
- Mobiles / Wearables /IoT Devices
- Battery Powered Smart Devices
- Medical Devices

### PACKAGE



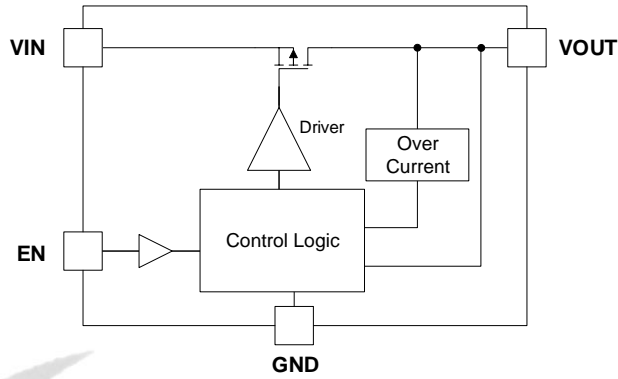
0.97 mm x 0.97 mm x 0.55 mm WLCSP

### APPLICATION DIAGRAM

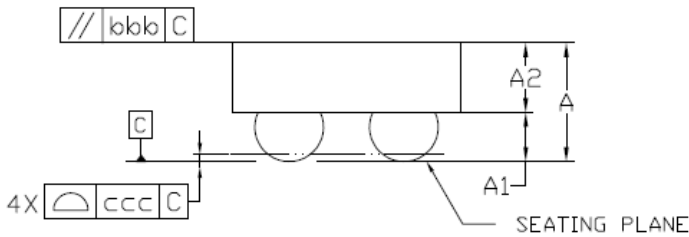
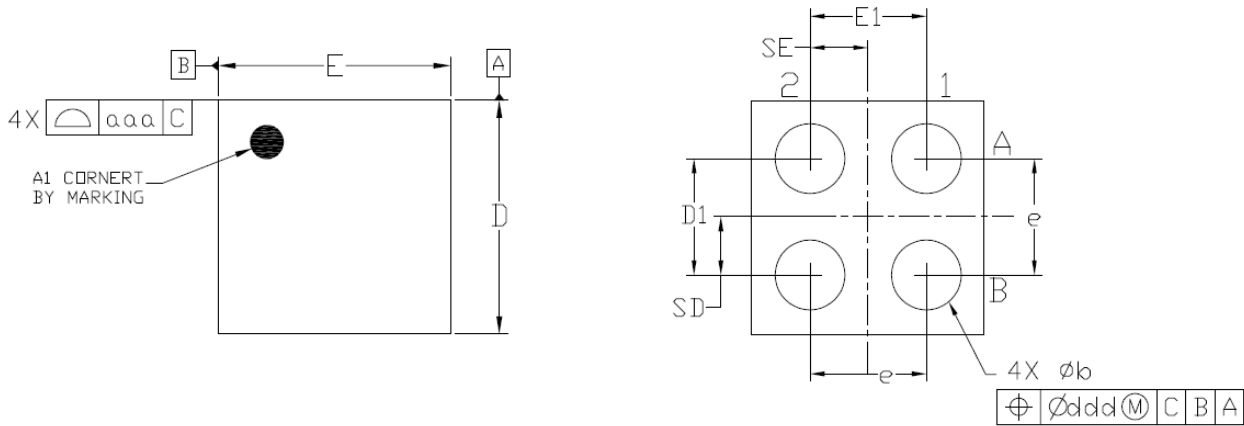


**Figure 1. Typical Application**

**FUNCTIONAL BLOCK DIAGRAM**



**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.