

Golden Pearl™ Display Module



MODULE FEATURES

Image

Resolution: 854 x 480 (WVGA)
 Contrast Ratio 100:1 (Typ)
 FOV: 20 degrees diagonal

Optics

Eye Relief: 22.5 mm
 Exit Pupil: 8 x 5 mm
 Distortion: < 1%

Brightness

>350 nits @ 20 mA to Backlight
 >500 nits @ 30 mA to Backlight

Mechanical

Dimension: 33.4 x 19.6 x 9.0 mm

Drive Electronics

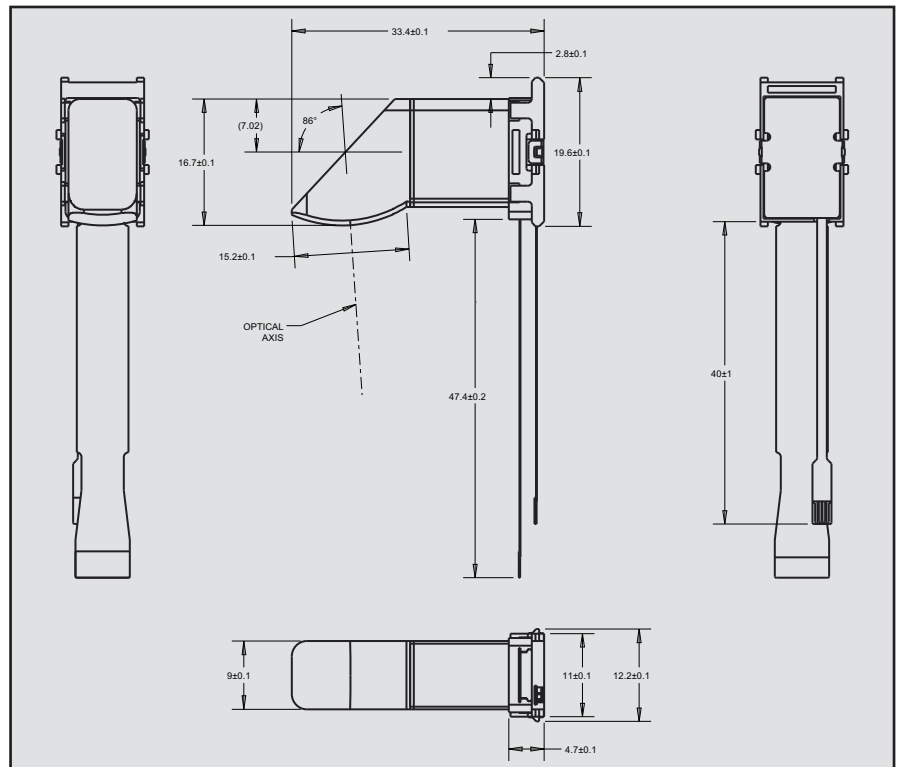
A914 or A913 ASIC

Power Consumption

(Display + BL + ASIC)
 <200 mW at 350 nits
 <240 mW at 500 nits

Golden Pearl™ is a compact Display Module aimed for emerging wearable computing / communication devices. Integrating a transmissive LCD (854x480 resolution in 0.32" diagonal), efficient backlight and curved prism optics with nano-structures, Golden Pearl provides a bright full-color image with less than 1% distortion in a 20-deg field of view and with 22.5 mm eye relief. Golden Pearl and Kopin's A914 display driver ASIC together consume less than 240 mW at a display brightness of 500 nits, sufficient for outdoor usage.

MECHANICAL DRAWING



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*Specifications subject to change without notice
 *Preliminary Rev. 1