



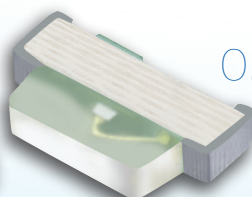
## Minikin-Air series

Features 0.20mm in height (total thickness) as industry's thinnest SMD LEDs - the 'Minikin-Air' represents the smallest, thinnest yet still powerful high quality LEDs. Its height is only about  $\frac{1}{4}$  of the standard SMD LEDs and available in both top emitting and right angle packages in full color spectrums. The miniaturization of the physical size of these ultra thin SMD LEDs makes them optimal for design engineers on different mobile and portable applications.

0.2mm



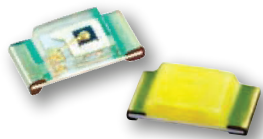
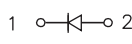
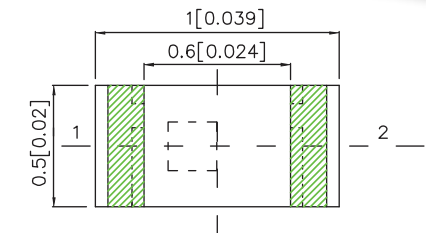
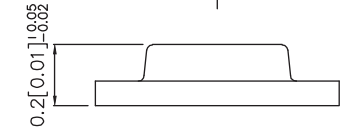
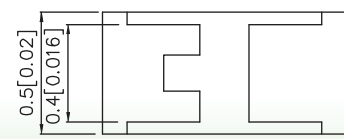
0.2mm



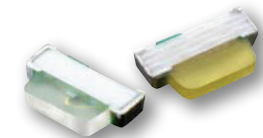
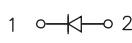
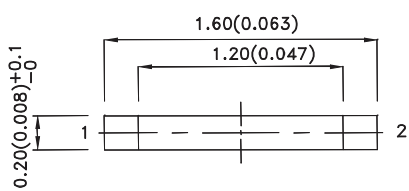
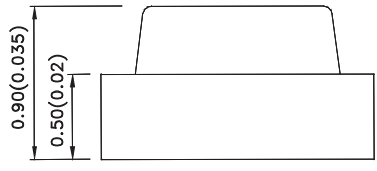
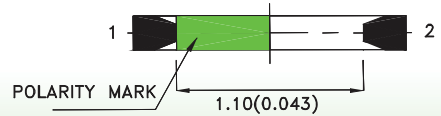
LED SOLUTION GUIDE  
for mobile and portable applications



## APG1005 (top emitting)

Product Features	Part Number	$\lambda D$ (nm)	Min.	Typ.	Unit	Dimensions
<ul style="list-style-type: none"> <li>0.2mm in total thickness</li> <li>Industry's thinnest SMD LED</li> <li>Available in Blue, True Green, Amber, Orange, Red &amp; White</li> <li>Top emitting, chip-type SMD LED 1.0mm x 0.5mm x 0.2mm (0402 package)</li> <li>Driving condition as low as 1mA</li> <li>Ideal for portable devices, mobile consumer electronics and industrial handheld devices, backlighting and indicator applications</li> </ul>	APG1005SYC-T	589	55	100	mcd @20mA	<b>Minikin-Air (top emitting)</b> <b>1.0mm x 0.5mm x 0.2mm</b>     
	APG1005SEC-T	605	40	90	mcd @20mA	
	APG1005CGC-T	571	12	35	mcd @20mA	
	APG1005SEC/E-T	624	20	75	mcd @20mA	
	APG1005VBC-A1-5MAV	468	20	60	mcd @5mA	
	APG1005VWF-A1-5MAV	X=0.31 Y=0.31	180	310	mcd @5mA	
	APG1005ZGC-5MAV	525	120	280	mcd @5mA	

## APGA1602 (right angle)

Product Features	Part Number	$\lambda D$ (nm)	Min.	Typ.	Unit	Dimensions
<ul style="list-style-type: none"> <li>0.2mm in total thickness</li> <li>Industry's thinnest SMD LED</li> <li>Available in Blue, Green, Amber, Red and White</li> <li>Right angle, chip-type SMD LED 1.6mm x 0.9mm x 0.2mm</li> <li>Driving condition as low as 1mA</li> <li>Ideal for portable devices, mobile consumer electronics and industrial handheld devices, backlighting and indicator applications</li> </ul>	APGA1602SEC/E/KA	624	55	120	mcd @20mA	<b>Minikin-Air (right angle)</b> <b>1.6mm x 0.9mm x 0.2mm</b>     
	APGA1602SYC/KA	589	40	75	mcd @20mA	
	APGA1602QBC/KA-5MAV	463	8	20	mcd @5mA	
	APGA1602QWF/KA-5MAV	X=0.31 Y=0.31	20	60	mcd @5mA	
	APGA1602CGC/KA	571	12	30	mcd @20mA	