

SMD LED

Kingbright SMD (Surface-Mount Device) LEDs are energy efficient with excellent intensity performances. We have a complete selection of SMDs in variety of sizes, viewing angles, color combinations and light outputs to fulfill all design needs.



03 /
Low Current SMD LED

09 /
High Temperature
SMD LED

10 /
Top-Emitting Chip
SMD LED

14 /
Top-Emitting PLCC
SMD LED


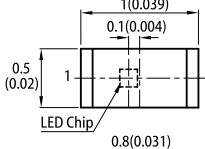
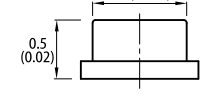
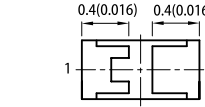

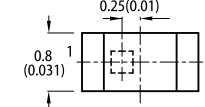
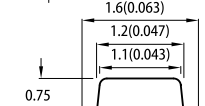
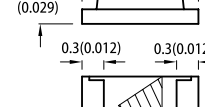

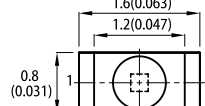
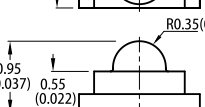
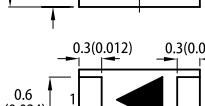

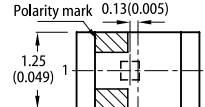
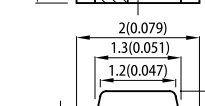
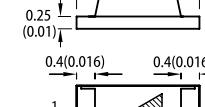
15 /
Right Angel SMD LED

17 /
Multi-Color SMD LED

22 /
Subminiature SMD LED

23 /
Reverse Mount SMD LED

LOW CURRENT SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @2mA		Viewing Angle 2θ1/2	Dimensions	
				Min.	Typ.			
APHHS1005LSECK/J3-PF	AlGaInP	625	Water Clear	15	35	120°	<p>1.0mm x 0.5mm x 0.5mm (0402)</p>  <p>APHHS1005L</p>    <p>APHHS1005LQBC/D-V</p> <p>APHHS1005LSECK/J3-PF APHHS1005LSECK/J4-PF</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>	
APHHS1005LSECK/J4-PF	AlGaInP	605	Water Clear	20	40	120°		
APHHS1005LCGCK	AlGaInP	570	Water Clear	1.2	3.5	120°		
APHHS1005LQBC/D-V	InGaN	465	Water Clear	6	15	140°		
APT1608LSECK/J3-PRV	AlGaInP	625	Water Clear	20	40	120°		<p>1.6mm x 0.8mm x 0.75mm (0603)</p>  <p>APT1608L</p>    <p>APT1608LSECK/J3-PRV APT1608LSECK/J4-PRV APT1608LSYCK/J3-PRV</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
APT1608LSECK/J4-PRV	AlGaInP	605	Water Clear	30	50	120°		
APT1608LSYCK/J3-PRV	AlGaInP	590	Water Clear	15	25	120°		
APT1608LZGCK	InGaN	525	Water Clear	50	100	130°		
APT1608LVBC/D	InGaN	470	Water Clear	15	24	130°		
APTD1608LSURCK	AlGaInP	630	Water Clear	15	30	60°	<p>1.6mm x 0.8mm x 0.95mm (0603 Dome Lens)</p>  <p>APTD1608L</p>    <p>APTD1608LSECK/J3-PF APTD1608LSECK/J4-PF APTD1608LSYCK/J3-PF</p> <p>Units: mm (inch) Tolerance: ± 0.15 (0.006)</p>	
APTD1608LSECK/J3-PF	AlGaInP	625	Water Clear	50	120	60°		
APTD1608LSECK/J4-PF	AlGaInP	605	Water Clear	80	150	60°		
APTD1608LSYCK	AlGaInP	590	Water Clear	20	40	60°		
APTD1608LSYCK/J3-PF	AlGaInP	590	Water Clear	30	55	60°		
APTD1608LCGCK	AlGaInP	570	Water Clear	6	8	60°		
APTD1608LZGCK	InGaN	525	Water Clear	250	420	60°		
APTD1608LVBC/D	InGaN	470	Water Clear	30	65	40°		
APTD1608LQBC/D	InGaN	465	Water Clear	10	20	40°		
APT2012LSECK/J3-PRV	AlGaInP	625	Water Clear	20	40	140°	<p>2.0mm x 1.25mm x 0.75mm (0805)</p>  <p>APT2012L</p>    <p>APT2012LSECK/J3-PRV</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>	
APT2012LZGCK	InGaN	525	Water Clear	50	100	140°		
APT2012LVBC/D	InGaN	470	Water Clear	15	24	140°		

AP series custom-made is available upon request

LOW CURRENT SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @2mA		Viewing Angle	Dimensions
				Min.	Typ.		
APTD2012LSURCK	AlGaInP	630	Water Clear	20	50	40°	<p>2.0mm x 1.25mm x 1.05mm (0805 Dome Lens)</p> <p>Units: mm (inch) Tolerance: ± 0.15 (0.006)</p>
APTD2012LSYCK	AlGaInP	590	Water Clear	30	90	40°	
APTD2012LCGCK	AlGaInP	570	Water Clear	20	40	40°	
APTD2012LZGCK	InGaN	525	Water Clear	320	550	30°	
APA2107LZGCK	InGaN	525	Water Clear	50	100	170°	<p>2.1mm x 1.0mm x 0.6mm (Right Angle)</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
APA2107LVBC/D	InGaN	470	Water Clear	10	20	170°	
APDA3020LSECK/J3-PF	AlGaInP	625	Water Clear	250	500	10°	<p>3.0mm x 2.8mm x 2.0mm (Right Angle)</p> <p>Units: mm (inch) Tolerance: ± 0.2 (0.008)</p>
APDA3020LZGCK	InGaN	525	Water Clear	700	1500	10°	
APT3216LSECK/J3-PRV	AlGaInP	625	Water Clear	20	40	140°	<p>3.2mm x 1.6mm x 0.75mm (1206)</p> <p>Units: mm (inch) Tolerance: ± 0.2 (0.008)</p>

LOW CURRENT SMD LED

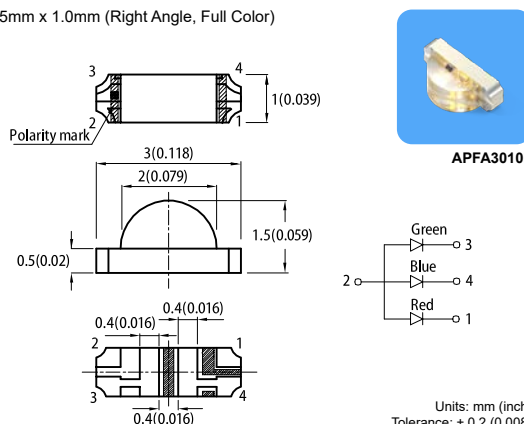
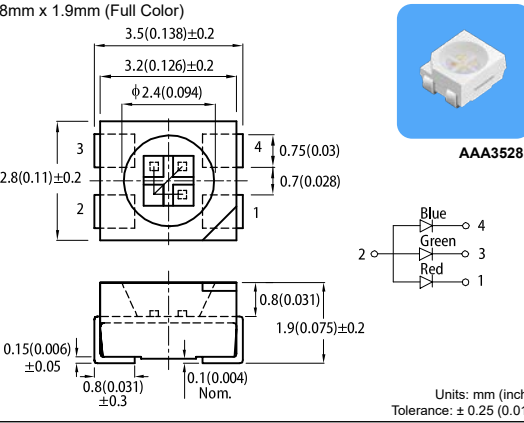
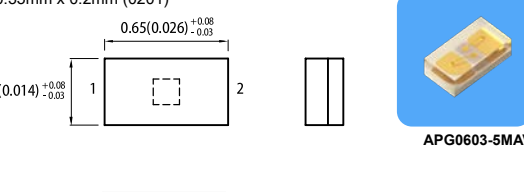
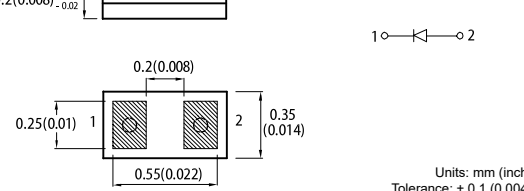
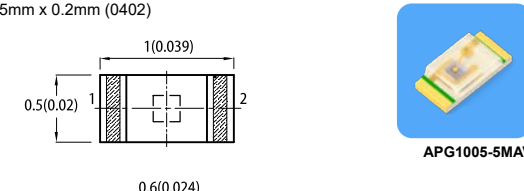
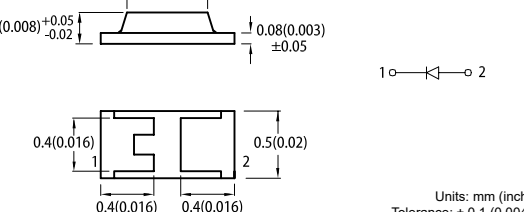
Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @2mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
APTD3216LSURCK	AlGaInP	630	Water Clear	20	50	40°	<p>3.2mm x 1.6mm x 1.8mm (1206 Dome Lens)</p> <p>Units: mm (inch) Tolerance: ± 0.2 (0.008)</p>
AA3528LSECKT/J3	AlGaInP	625	Water Clear	30	50	120°	<p>3.5mm x 2.8mm x 1.9mm</p> <p>Units: mm (inch) Tolerance: ± 0.25 (0.01)</p>
APHB1608LZGKSURKC	InGaN	525	Water Clear	50	80	130°	<p>1.6mm x 0.8mm x 0.5mm (0603 Bi-Color)</p> <p>Units: mm (inch) Tolerance: ± 0.15 (0.006)</p>
	AlGaInP	630		2	8		
APHBM2012LSURKZGKC	AlGaInP	630	Water Clear	6	15	120°	<p>2.0mm x 1.25mm x 0.45mm (0805 Super Thin, Bi-Color)</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
	InGaN	525		50	90		

AP series custom-made is available upon request

LOW CURRENT SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @2mA		Viewing Angle 2 θ /2	Dimensions	
				Min.	Typ.			
APBD3224LSURKCGKC	AlGaInP	630	Water Clear	10	30	20°	<p>3.2mm x 2.4mm x 2.4mm (Dome Lens)</p> <p>APBD3224L</p> <p>Red 2 \circ \triangle \circ 1 Green 4 \circ \triangle \circ 3</p> <p>Blue 2 \circ \triangle \circ 1 Green 4 \circ \triangle \circ 3</p> <p>Units: mm (inch) Tolerance: \pm 0.1 (0.004)</p>	
	AlGaInP	570		10	30			
APBD3224LSURKZGKC	AlGaInP	630	Water Clear	10	30	20°		
	InGaN	525		120	250			
APBD3224LQBDCGKC	InGaN	465	Water Clear	12	30	20°		
	AlGaInP	570		10	30			
APHF1608LSEEQBDZGKC	AlGaInP	621	Water Clear	4	15	140°		<p>1.6mm x 0.8mm x 0.5mm (Full Color)</p> <p>APHF1608L</p> <p>Red \circ 2 Blue \circ 3 Green \circ 4</p> <p>Units: mm (inch) Tolerance: \pm 0.15 (0.006)</p>
	InGaN	465		4	10			
	InGaN	525		50	90			
APTF1616LSEEZGKBKC	AlGaInP	621	Water Clear	6	15	130°		<p>1.6mm x 1.6mm x 0.7mm (Full Color)</p> <p>APTF1616L</p> <p>Blue \circ 4 Green \circ 3 Red \circ 1</p> <p>Units: mm (inch) Tolerance: \pm 0.2 (0.008)</p>
	InGaN	525		30	80			
	InGaN	465		6	14			
APFA2507LQBDSEEZGKC	InGaN	465	Water Clear	4	10	130°	<p>2.5mm x 1.0mm x 0.7mm (Right Angle, Full Color)</p> <p>APFA2507L</p> <p>Blue \circ 1 Red \circ 2 Green \circ 3 Green \circ 4</p> <p>Units: mm (inch) Tolerance: \pm 0.15 (0.006)</p>	
	AlGaInP	621		6	10			
	InGaN	525		50	90			

LOW CURRENT SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @2mA*5mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
APFA3010LSEEZGKBK	AlGaInP	621	Water Clear	6	15	150°	3.0mm x 1.5mm x 1.0mm (Right Angle, Full Color) 
	InGaN	525		50	90		
	InGaN	465		4	10		
AAA3528LSEEZGKBKS	AlGaInP	621	Water Clear	10	20	120°	3.5mm x 2.8mm x 1.9mm (Full Color) 
	InGaN	525		80	180		
	InGaN	465		12	30		
APG0603ZGC-5MAV	InGaN	525	Water Clear	*180	*280	140°	0.65mm x 0.35mm x 0.2mm (0201) 
APG0603VBC-A1-5MAV	InGaN	468	Water Clear	*30	*60	140°	
APG1005ZGC-5MAV	InGaN	525	Water Clear	*120	*280	140°	1.0mm x 0.5mm x 0.2mm (0402) 
APG1005VBC-A1-5MAV	InGaN	468	Water Clear	*20	*60	140°	

AP series custom-made is available upon request


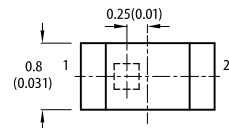
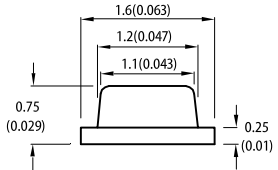
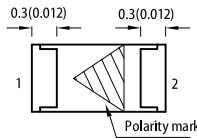
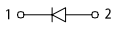
LOW CURRENT SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @5mA		Viewing Angle 2 θ 1/2	Dimensions	
				Min.	Typ.			
APGF0606SEEKSYKXC-TT	AlGaInP	624	Water Clear	30	80	140°	<p>0.65mm x 0.65mm x 0.2mm (Bi-Color)</p> <p>APGF0606</p>	
	AlGaInP	589		10	17			
APGF0606SEEKCGKXC-TT	AlGaInP	624	Water Clear	30	80	140°		
	AlGaInP	571		4	8			
APGF0606SEEKCGKCTTC2	AlGaInP	624	Water Clear	30	80	140°		
	AlGaInP	571		4	8			
APGF0606SYKCGK-TT-C2	AlGaInP	589	Water Clear	10	17	140°		
	AlGaInP	571		4	8			
APGF1012GBRC-07	InGaN	525	Water Clear	80	220	150°		<p>1.0mm x 1.0mm x 0.25mm (Full Color)</p> <p>APGF1012</p>
	InGaN	465		10	23			
	AlGaInP	624		15	30			


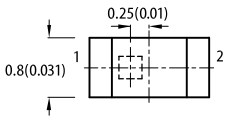
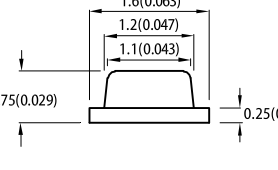
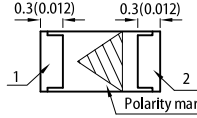
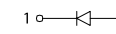
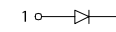

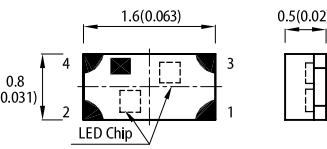
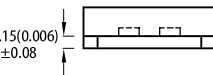
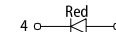
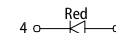
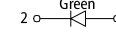
LOW CURRENT SMD LED

Part Number	Material	Chromaticity Coordinates	Lens Type	Iv (mcd) @5mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Max.		
APHM1608VRBXF/A-5MAV	InGaN	x=0.20 y=0.15	Yellow Fluorescent	80	180	160°	<p>1.6mm x 0.8mm x 0.45mm (0603)</p> <p>APHM1608-5MAV</p>

LOW CURRENT SMD LED

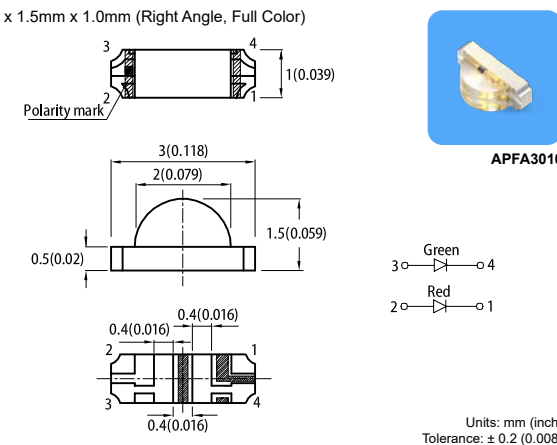
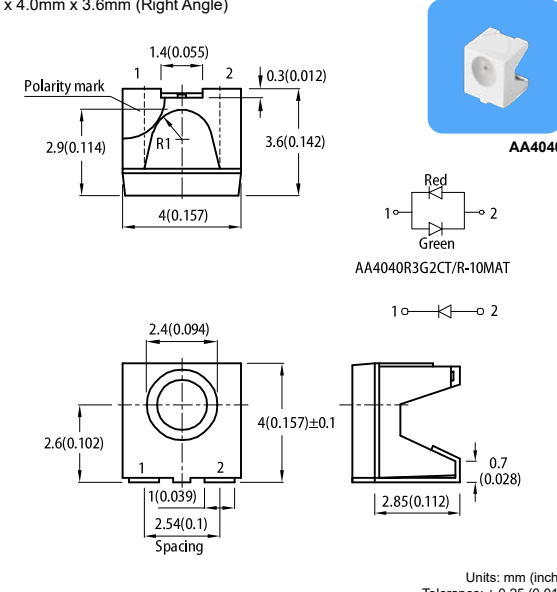
Part Number	Material	Chromaticity Coordinates	Lens Type	Iv (mcd) @5mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Max.		
APT1608VRCXF/A-5MAV	InGaN	x=0.23 y=0.41	Green Fluorescent	80	350	160°	1.6mm x 0.8mm x 0.75mm (0603)  APT1608-5MAV     Units: mm (inch) Tolerance: ± 0.1 (0.004)

HIGH TEMPERATURE SMD LED

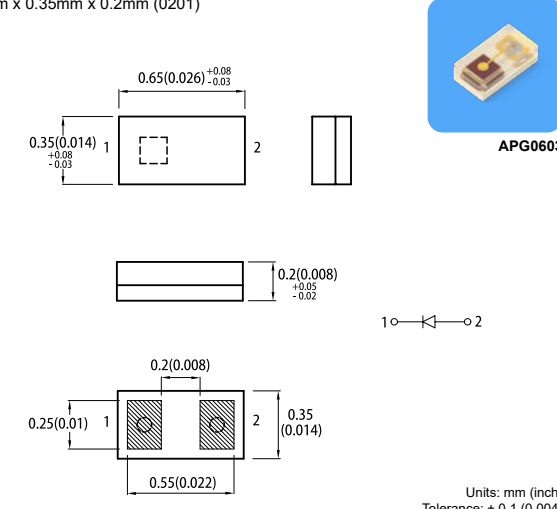
Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @20mA*2mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Max.		
APT1608SEC/J3-AMT	AlGaInP	625	Water Clear	200	500	120°	1.6mm x 0.8mm x 0.75mm (0603)  APT1608     APT1608SEC/J3-AMT APT1608SYC/J3-AMT  Units: mm (inch) Tolerance: ± 0.1 (0.004)
APT1608SECK-AMT	AlGaInP	605	Water Clear	80	300	120°	
APT1608SYC/J3-AMT	AlGaInP	590	Water Clear	300	1000	120°	
APT1608ZGC-AMT	InGaN	525	Water Clear	300	700	130°	
APHB1608Y2R2C-AMT	AlGaInP	590	Water Clear	80	300	130°	1.6mm x 0.8mm x 0.5mm (0603 Bi-Color)  APHB1608    Units: mm (inch) Tolerance: ± 0.15 (0.006)
	AlGaInP	630		40	120		
APHB1608G2R2C-AMT	AlGaInP	570	Water Clear	20	80	130°	 Units: mm (inch) Tolerance: ± 0.15 (0.006)
	AlGaInP	630		40	120		
APHB1608LG3R2C-AMT	InGaN	525	Water Clear	*50	*180	130°	 Units: mm (inch) Tolerance: ± 0.15 (0.006)
	AlGaInP	630		*4	*15		

AP series custom-made is available upon request

HIGH TEMPERATURE SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA*2mA**10mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Max.		
APFA3010R2G2C-C6-AMT	AlGaInP	630	Water Clear	55	200	150°	3.0mm x 1.5mm x 1.0mm (Right Angle, Full Color)  Units: mm (inch) Tolerance: ± 0.2 (0.008)
	AlGaInP	570		20	80		
AA4040SURCKT-AMT	AlGaInP	630	Water Clear	80	300	120°	4.0mm x 4.0mm x 3.6mm (Right Angle)  Units: mm (inch) Tolerance: ± 0.25 (0.01)
AA4040LSURCKT-AMT	AlGaInP	630	Water Clear	*6	*20	120°	
AA4040R3G2CT/R-10MAT	AlGaInP	625	Water Clear	**250	**450	120°	
	AlGaInP	570		**15	**80		
AA4040SYCKT/J3-AMT	AlGaInP	590	Water Clear	400	1000	120°	
AA4040LSYCKT/J3-AMT	AlGaInP	590	Water Clear	*20	*80	120°	
AA4040LCGCK-AMT	AlGaInP	570	Water Clear	*6	*20	120°	
AA4040ZGCKT-AMT	InGaN	525	Water Clear	500	1300	120°	
AA4040LZGCKT-AMT	InGaN	525	Water Clear	*80	*320	120°	
AA4040QBS/D-AMT	InGaN	465	Water Clear	120	400	120°	
AA4040LQBS/D-AMT	InGaN	465	Water Clear	*15	*50	120°	

TOP-EMITTING CHIP SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @10mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
APG0603SURC-TT	AlGaInP	631	Water Clear	10	35	140°	0.65mm x 0.35mm x 0.2mm (0201)  Units: mm (inch) Tolerance: ± 0.1 (0.004)
APG0603SEC-E-TT	AlGaInP	624	Water Clear	15	40	140°	
APG0603SEC-TT	AlGaInP	605	Water Clear	20	50	140°	
APG0603SYC-TT	AlGaInP	589	Water Clear	10	30	140°	
APG0603CGC-TT	AlGaInP	571	Water Clear	6	15	140°	

TOP-EMITTING CHIP SMD LED

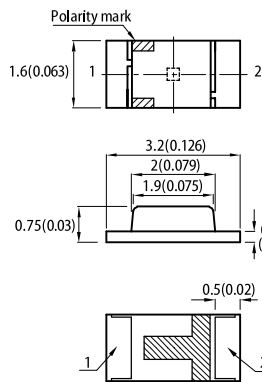

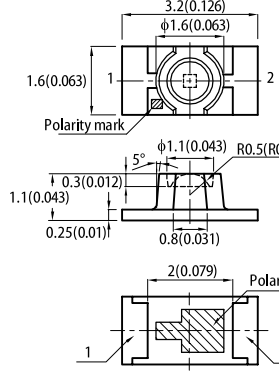

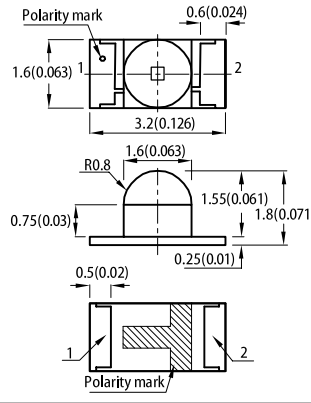

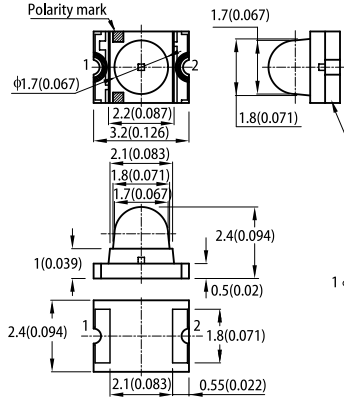
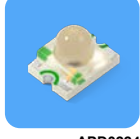
Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
APG1005SYC-T	AlGaInP	589	Water Clear	55	100	120°	<p>1.0mm x 0.5mm x 0.2mm (0402)</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
APG1005CGC-T	AlGaInP	571	Water Clear	12	35	120°	
APHHS1005SURCK	AlGaInP	630	Water Clear	40	70	120°	<p>1.0mm x 0.5mm x 0.5mm (0402)</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
APHHS1005SECK	AlGaInP	605	Water Clear	80	150	120°	
APHHS1005SYCK	AlGaInP	590	Water Clear	80	150	120°	
APHHS1005CGCK	AlGaInP	570	Water Clear	20	50	120°	
APHHS1005ZGCK	InGaN	525	Water Clear	400	550	140°	
APHHS1005QBC/D	InGaN	465	Water Clear	40	60	140°	
APG1608SURKC/T	AlGaInP	630	Water Clear	55	110	120°	<p>1.6mm x 0.8mm x 0.25mm (0603)</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
APG1608SEKC/T	AlGaInP	601	Water Clear	55	100	120°	
APG1608SYKC/T	AlGaInP	590	Water Clear	55	120	120°	
APG1608CGKC/T	AlGaInP	570	Water Clear	20	50	120°	
APG1608ZGCK	InGaN	525	Water Clear	300	400	130°	
APG1608QBC/D	InGaN	465	Water Clear	40	100	130°	
APT1608SURCK	AlGaInP	630	Water Clear	40	80	120°	<p>1.6mm x 0.8mm x 0.75mm (0603)</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
APT1608SECK/J3-PRV	AlGaInP	625	Water Clear	200	350	120°	
APT1608SECK/J4-PRV	AlGaInP	605	Water Clear	300	550	120°	
APT1608SECK	AlGaInP	605	Water Clear	80	180	120°	
APT1608SYCK	AlGaInP	590	Water Clear	80	150	120°	
APT1608SYCK/J3-PRV	AlGaInP	590	Water Clear	200	320	120°	
APT1608CGCK	AlGaInP	570	Water Clear	20	50	120°	
APT1608ZGCK	InGaN	525	Water Clear	300	550	130°	
APT1608VBC/D	InGaN	470	Water Clear	120	180	130°	
APT1608QBC/D	InGaN	465	Water Clear	40	100	130°	

AP series custom-made is available upon request

TOP-EMITTING CHIP SMD LED


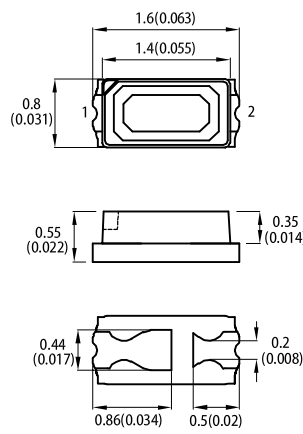

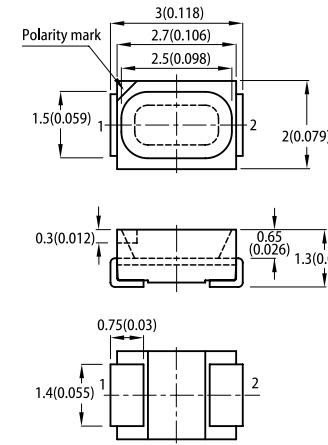

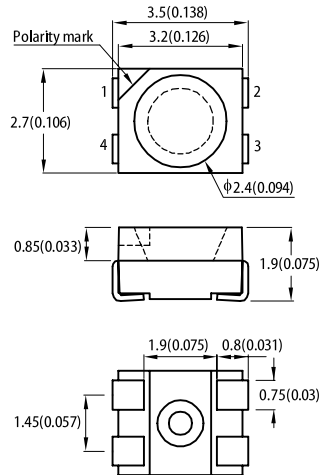
Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ /2	Dimensions	
				Min.	Typ.			
APTD1608SURCK	AlGaInP	630	Water Clear	80	250	60°	<p>1.6mm x 0.8mm x 0.95mm (0603 Dome Lens)</p> <p>APTD1608</p> <p>Units: mm (inch) Tolerance: ± 0.15 (0.006)</p>	
APTD1608SEC/J3	AlGaInP	625	Water Clear	500	900	60°		
APTD1608SECK/J3-PF	AlGaInP	625	Water Clear	500	900	60°		
APTD1608SECK/J4-PF	AlGaInP	605	Water Clear	1000	1600	60°		
APTD1608SECK	AlGaInP	605	Water Clear	200	500	60°		
APTD1608SYCK	AlGaInP	590	Water Clear	300	600	60°		
APTD1608SYCK/J3-PF	AlGaInP	590	Water Clear	500	850	60°		
APTD1608CGCK	AlGaInP	570	Water Clear	80	190	60°		
APTD1608ZGCK	InGaN	525	Water Clear	700	1200	60°		
APTD1608VBC/D	InGaN	470	Water Clear	200	350	40°		
APTD1608QBC/D	InGaN	465	Water Clear	80	200	40°		
APHCM2012SURCK-F01	AlGaInP	630	Water Clear	40	80	140°		<p>2.0mm x 1.25mm x 0.4mm (0805)</p> <p>APHCM2012</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
APHCM2012SECK-F01	AlGaInP	605	Water Clear	80	180	140°		
APHCM2012SYCK-F01	AlGaInP	590	Water Clear	80	150	140°		
APHCM2012CGCK-F01	AlGaInP	570	Water Clear	20	50	140°		
APHCM2012QBC/D-F01	InGaN	465	Water Clear	40	100	140°		
APT2012SURCK	AlGaInP	630	Water Clear	40	80	140°	<p>2.0mm x 1.25mm x 0.75mm (0805)</p> <p>APT2012</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>	
APT2012SECK/J3-PRV	AlGaInP	625	Water Clear	200	350	140°		
APT2012SECK	AlGaInP	605	Water Clear	80	180	140°		
APT2012SYCK	AlGaInP	590	Water Clear	80	150	140°		
APT2012SYCK/J3-PRV	AlGaInP	590	Water Clear	200	320	140°		
APT2012CGCK	AlGaInP	570	Water Clear	20	50	140°		
APT2012ZGCK	InGaN	525	Water Clear	300	550	140°		
APT2012VBC/D	InGaN	470	Water Clear	120	180	140°		
APT2012QBC/D	InGaN	465	Water Clear	40	100	140°		
APL3015SURCK-F01	AlGaInP	630	Water Clear	120	180	70°		<p>3.0mm x 1.5mm x 1.4mm</p> <p>APL3015</p> <p>Units: mm (inch) Tolerance: ± 0.2 (0.008)</p>
APL3015SECK-F01	AlGaInP	605	Water Clear	120	350	70°		
APL3015SYCK-F01	AlGaInP	590	Water Clear	200	350	70°		
APL3015CGCK-F01	AlGaInP	570	Water Clear	55	120	70°		
APL3015ZGC-F01	InGaN	525	Water Clear	1000	1500	50°		
APL3015QBC/D-F01	InGaN	465	Water Clear	120	200	50°		

TOP-EMITTING CHIP SMD LED

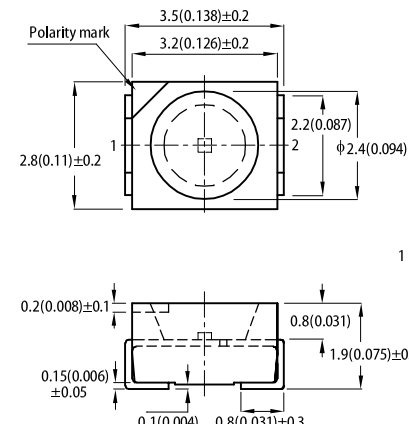
Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
APT3216SURCK	AlGaInP	630	Water Clear	40	80	140°	3.2mm x 1.6mm x 0.75mm (1206)   <p>APT3216</p>
APT3216SECK/J3-PRV	AlGaInP	625	Water Clear	200	350	140°	
APT3216SECK	AlGaInP	605	Water Clear	80	180	140°	
APT3216SYCK	AlGaInP	590	Water Clear	80	150	140°	
APT3216CGCK	AlGaInP	570	Water Clear	20	50	140°	
APT3216ZGC	InGaN	525	Water Clear	300	600	150°	
APT3216QBC/D	InGaN	465	Water Clear	40	100	150°	3.2mm x 1.6mm x 1.1mm (1206)   <p>APTL3216</p>
APTL3216SECK	AlGaInP	605	Water Clear	200	350	80°	
APTL3216SYCK	AlGaInP	590	Water Clear	200	350	80°	
APTL3216CGCK	AlGaInP	570	Water Clear	55	100	80°	
APTL3216ZGC	InGaN	525	Water Clear	700	1100	80°	
APTL3216QBC/D	InGaN	465	Water Clear	120	250	80°	
APTD3216SURCK	AlGaInP	630	Water Clear	300	800	40°	3.2mm x 1.6mm x 1.8mm (1206 Dome Lens)   <p>APTD3216</p>
APTD3216SECK	AlGaInP	605	Water Clear	500	1000	40°	
APTD3216SYCK	AlGaInP	590	Water Clear	700	800	40°	
APTD3216CGCK	AlGaInP	570	Water Clear	120	300	40°	
APTD3216ZGCK	InGaN	525	Water Clear	2700	4000	30°	
APTD3216QBC/D	InGaN	465	Water Clear	300	700	30°	
APD3224SURCK-F01	AlGaInP	630	Water Clear	1000	1300	20°	3.2mm x 2.4mm x 2.4mm (Dome Lens)   <p>APD3224</p>
APD3224SECK-F01	AlGaInP	605	Water Clear	1000	1600	20°	
APD3224SYCK-F01	AlGaInP	590	Water Clear	1300	1600	20°	
APD3224CGCK-F01	AlGaInP	570	Water Clear	500	900	20°	
APD3224ZGCK-F01	InGaN	525	Water Clear	3600	6800	20°	
APD3224QBC/D-F01	InGaN	465	Water Clear	500	900	20°	

AP series custom-made is available upon request

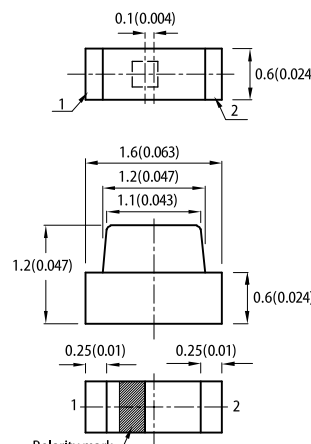
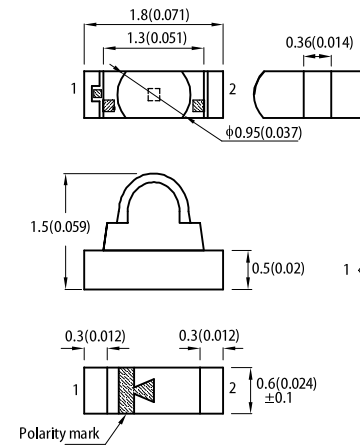
TOP-EMITTING PLCC SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA*10mA		Viewing Angle 2 θ /2	Dimensions
				Min.	Typ.		
AA1608SURSK	AlGaInP	630	Water Clear	40	160	120°	1.6mm x 0.8mm x 0.55mm (0603)  AA1608  Units: mm (inch) Tolerance: ± 0.15 (0.006)
AA1608SESK	AlGaInP	605	Water Clear	80	120	120°	
AA1608SYSK	AlGaInP	590	Water Clear	55	240	120°	
AA1608CGSK	AlGaInP	570	Water Clear	40	80	120°	
AA1608ZGSK-10MAV	InGaN	525	Water Clear	*450	*700	120°	
AA1608VBS/A1-10MAV	InGaN	468	Water Clear	*50	*160	120°	
AA1608QBS/D-10MAV	InGaN	465	Water Clear	*50	*120	120°	
AA3021SURSK	AlGaInP	630	Water Clear	40	90	120°	3.0mm x 2.0mm x 1.3mm  AA3021  Units: mm (inch) Tolerance: ± 0.2 (0.008)
AA3021SYSK	AlGaInP	590	Water Clear	120	200	120°	
AA3021CGSK	AlGaInP	570	Water Clear	40	80	120°	
AA3021QBS/D	InGaN	465	Water Clear	80	120	120°	
AA3527ASYSK/J3-50MAV	AlGaInP	590	Water Clear	1000	1500	120°	3.5mm x 2.7mm x 1.9mm  AA3527A  Units: mm (inch) Tolerance: ± 0.25 (0.01)
AA3527AZGSK-30MAV	InGaN	525	Water Clear	*500	*700	120°	
AA3527AVBS/D-30MAV	InGaN	470	Water Clear	*300	*600	120°	

TOP-EMITTING PLCC SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
AA3528SURCK	AlGaInP	630	Water Clear	55	100	120°	<p>3.5mm x 2.8mm x 1.9mm</p>  <p>Units: mm (inch) Tolerance: ± 0.25 (0.01)</p>
AA3528SYCK	AlGaInP	590	Water Clear	120	250	120°	
AA3528CGCK	AlGaInP	570	Water Clear	40	100	120°	
AA3528ZGCK	InGaN	525	Water Clear	500	1000	120°	
AA3528VBS/D	InGaN	470	Water Clear	300	450	120°	
AA3528QBS/D	InGaN	465	Water Clear	80	150	120°	

RIGHT ANGLE SMD LED


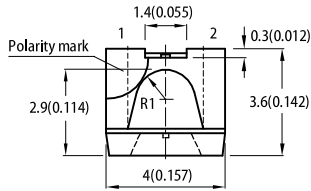
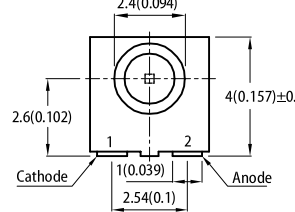
Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
APA1606SURCK	AlGaInP	630	Water Clear	40	80	110°	<p>1.6mm x 1.2mm x 0.6mm (Right Angle)</p>  <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
APA1606SECK	AlGaInP	605	Water Clear	80	180	110°	
APA1606SYCK	AlGaInP	590	Water Clear	80	150	110°	
APA1606CGCK	AlGaInP	570	Water Clear	20	50	110°	
APA1606VBC/D	InGaN	470	Water Clear	120	200	110°	
APA1606QBC/D	InGaN	465	Water Clear	40	80	110°	
APDA1806SURCK	AlGaInP	630	Water Clear	500	1200	25°	<p>1.8mm x 1.5mm x 0.6 mm (Right Angle)</p>  <p>Units: mm (inch) Tolerance: ± 0.15 (0.006)</p>
APDA1806SECK/J3-PRV	AlGaInP	625	Water Clear	1300	2600	25°	
APDA1806SYCK	AlGaInP	590	Water Clear	500	1100	25°	
APDA1806CGCK	AlGaInP	570	Water Clear	120	400	25°	
APDA1806ZGCK	InGaN	525	Water Clear	1900	3200	25°	
APDA1806VBC/D	InGaN	470	Water Clear	400	800	25°	

AP series custom-made is available upon request


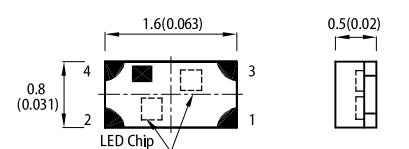
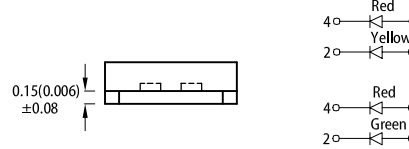
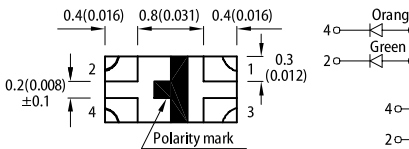

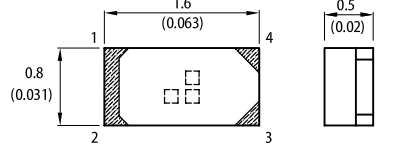
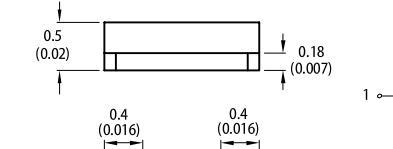

RIGHT ANGLE SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ /2	Dimensions
				Min.	Typ.		
APA2107SURCK	AlGaInP	630	Water Clear	40	80	140°	<p>2.1mm x 1.0mm x 0.6mm (Right Angle)</p> <p>0.15(0.006) 2.1(0.083) 0.15(0.006) 0.6(0.024)</p> <p>1 2</p> <p>APA2107</p>
APA2107SYCK	AlGaInP	590	Water Clear	80	150	140°	
APA2107CGCK	AlGaInP	570	Water Clear	20	50	140°	
AA2810ASURSK	AlGaInP	630	Water Clear	40	100	110°	<p>2.8mm x 1.2mm x 0.8mm (Right Angle)</p> <p>2.8(0.11) 2.5(0.098) 2.3(0.09) 0.57(0.022) 0.8(0.031)</p> <p>1 2</p> <p>AA2810A</p> <p>1.2(0.047) 0.8(0.031)</p> <p>1 2</p> <p>AA2810ASESK/J3</p> <p>1 2</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
AA2810ASESK/J3	AlGaInP	625	Water Clear	300	500	110°	
AA2810ASYSK	AlGaInP	590	Water Clear	120	200	110°	
AA2810ACGSK	AlGaInP	570	Water Clear	40	70	110°	
AA2810AVBS/D	InGaN	470	Water Clear	200	350	110°	
APA3010SURCK-GX	AlGaInP	630	Water Clear	40	80	120°	
APA3010SECK-GX	AlGaInP	605	Water Clear	80	180	120°	<p>3.0mm x 2.0mm x 1.0mm (Right Angle)</p> <p>1(0.039) 3.0(0.118) 0.4(0.016) 0.4(0.016)</p> <p>1 2</p> <p>APA3010</p> <p>2(0.079)</p> <p>2(0.079) 1(0.039)</p> <p>1 2</p> <p>0.4(0.016) 0.4(0.016)</p> <p>1 2</p> <p>Polarity mark</p> <p>Units: mm (inch) Tolerance: ± 0.15 (0.006)</p>
APA3010SYCK-GX	AlGaInP	590	Water Clear	80	150	120°	
APA3010CGCK-GX	AlGaInP	570	Water Clear	20	50	120°	
APA3010QBC/D-GX	InGaN	465	Water Clear	40	80	120°	
APDA3020SECK/J3-PF	AlGaInP	625	Water Clear	2300	3800	10°	
APDA3020SYCK/J3-PF	AlGaInP	590	Water Clear	3600	7000	10°	<p>3.0mm x 2.8mm x 2.0mm (Right Angle, Dome Lens)</p> <p>3(0.118) 2.2(0.087) $\phi 1.9(0.075)$ 2(0.079)</p> <p>1 2</p> <p>APDA3020</p> <p>R0.85(0.033)</p> <p>2.8(0.11) 1.6(0.063) 0.5(0.02)</p> <p>1 2</p> <p>0.8(0.031) 0.8(0.031)</p> <p>1 2</p> <p>Polarity mark</p> <p>Units: mm (inch) Tolerance: ± 0.2 (0.008)</p>
APDA3020VBC/D	InGaN	470	Water Clear	1300	2300	10°	

RIGHT ANGLE SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
AA4040SURSK	AlGaInP	630	Water Clear	80	150	120°	4.0mm x 4.0mm x 3.6mm (Right Angle)  AA4040   Units: mm (inch) Tolerance: ± 0.25 (0.01)
AA4040SESK	AlGaInP	605	Water Clear	80	220	120°	
AA4040SYSK	AlGaInP	590	Water Clear	120	250	120°	
AA4040CGCK	AlGaInP	570	Water Clear	40	90	120°	
AA4040ZGS	InGaN	525	Water Clear	500	850	120°	
AA4040QBS/D	InGaN	465	Water Clear	80	220	120°	
AA4040QBS/G	InGaN	465	Water Clear	200	350	120°	

MULTI-COLOR SMD LED



Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
APHB1608SYKSURKC	AlGaInP	590	Water Clear	80	150	130°	1.6mm x 0.8mm x 0.5mm (0603 Bi-Color)  APHB1608    Units: mm (inch) Tolerance: ± 0.15 (0.006)
	AlGaInP	630		40	90		
APHB1608CGKSURKC	AlGaInP	570	Water Clear	20	50	130°	
	AlGaInP	630		40	90		
APHB1608CGKSEKC	AlGaInP	570	Water Clear	20	50	130°	
	AlGaInP	605		80	200		
APHB1608CGKSYKC	AlGaInP	570	Water Clear	20	50	130°	
	AlGaInP	590		80	150		
APHB1608ZGKSURKC	InGaN	525	Water Clear	200	350	130°	
	AlGaInP	630		40	90		
APHB1608ZGKSYKC	InGaN	525	Water Clear	200	400	130°	
	AlGaInP	590		80	150		
APHB1608QBDSURKC	InGaN	465	Water Clear	40	70	130°	
	AlGaInP	630		40	90		
APHB1608QBDSYKC	InGaN	465	Water Clear	40	70	130°	
	AlGaInP	590		80	150		
APHB1608QBDCGKC	InGaN	465	Water Clear	40	70	130°	
	AlGaInP	570		20	50		
APHF1608SEEQBDZGKC	AlGaInP	621	Water Clear	40	120	140°	1.6mm x 0.8mm x 0.5mm (Full Color)  APHF1608    Units: mm (inch) Tolerance: ± 0.15 (0.006)
	InGaN	465		20	60		
	InGaN	525		200	480		

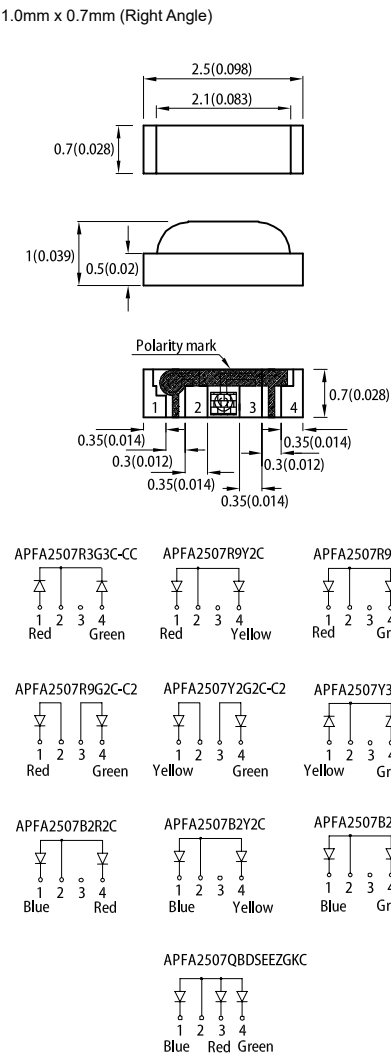
AP series custom-made is available upon request

MULTI-COLOR SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ /2	Dimensions
				Min.	Typ.		
APTB1612SURKCGKC-F01	AlGaInP	630	Water Clear	40	80	150°	1.6mm x 1.25mm x 0.65mm (Bi-Color)
	AlGaInP	570		20	50		
APTB1612SURKQBDC-F01	AlGaInP	630	Water Clear	40	80	150°	
	InGaN	465		40	80		
APTB1612SYKCGKC-F01	AlGaInP	590	Water Clear	80	120	150°	
	AlGaInP	570		20	50		
APTB1615SURKCGKC-F01	AlGaInP	630	Water Clear	40	80	150°	1.6mm x 1.5mm x 0.7mm (Bi-Color)
	AlGaInP	570		20	50		
APTB1615SYKCGKC-F01	AlGaInP	590	Water Clear	80	120	150°	
	AlGaInP	570		20	50		
APTF1616SURKCGKSYKC	AlGaInP	630	Water Clear	40	80	130°	1.6mm x 1.6mm x 0.7mm (Full Color)
	AlGaInP	570		20	50		
	AlGaInP	590		80	120		
APTF1616SEEZQBDC	AlGaInP	621	Water Clear	55	110	130°	
	InGaN	525		300	400		
	InGaN	465		40	70		
APTF1616SEJ3ZGGVBDC	AlGaInP	625	Water Clear	200	360	130°	
	InGaN	525		500	750		
	InGaN	470		80	140		
APHBM2012SURKCGKC	AlGaInP	630	Water Clear	40	80	120°	2.0mm x 1.25mm x 0.45mm (0805 Super Thin, Bi-Color)
AlGaInP	570	20		50			
APHBM2012SURKZGC	AlGaInP	630	Water Clear	40	80	120°	
	InGaN	525		300	500		
APHBM2012SURKZGKC	AlGaInP	630	Water Clear	40	80	120°	
	InGaN	525		300	450		
APHBM2012CGKSEKC	AlGaInP	570	Water Clear	20	50	120°	
	AlGaInP	605		80	180		
APHBM2012CGKSYKC	AlGaInP	570	Water Clear	20	50	120°	
	AlGaInP	590		80	120		
APHBM2012QBDSURKC	InGaN	465	Water Clear	40	80	120°	
	AlGaInP	630		40	80		

MULTI-COLOR SMD LED

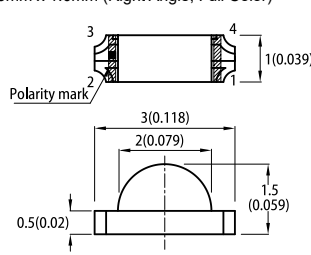
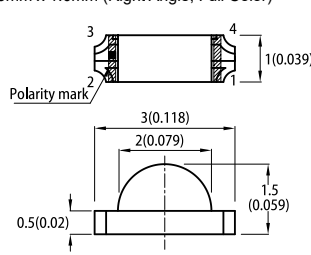
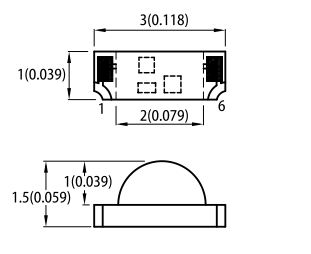
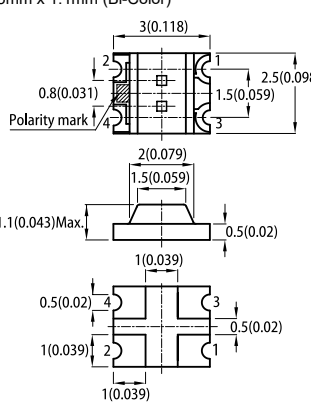
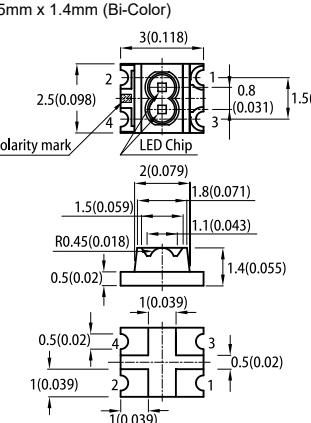
Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
APFA2507R3G3C-CC	AlGaInP	625	Water Clear	200	400	130°	2.5mm x 1.0mm x 0.7mm (Right Angle)  APFA2507
	InGaN	525		300	500		
APFA2507R9Y2C	AlGaInP	621	Water Clear	20	40	130°	
	AlGaInP	590		80	130		
APFA2507R9G2C	AlGaInP	621	Water Clear	20	40	130°	
	AlGaInP	570		20	45		
APFA2507R9G2C-C2	AlGaInP	621	Water Clear	20	40	130°	
	AlGaInP	570		20	45		
APFA2507Y2G2C-C2	AlGaInP	590	Water Clear	80	130	130°	
	AlGaInP	570		20	45		
APFA2507Y3G3-CC	AlGaInP	590	Water Clear	120	300	130°	
	InGaN	525		400	550		
APFA2507B2R2C	InGaN	465	Water Clear	40	65	130°	
	AlGaInP	630		55	80		
APFA2507B2Y2C	InGaN	465	Water Clear	40	65	130°	
	AlGaInP	590		80	130		
APFA2507B2G2C	InGaN	465	Water Clear	40	65	130°	
	AlGaInP	570		20	45		
APFA2507QBDSEEZGKC	InGaN	465	Water Clear	40	65	130°	
	AlGaInP	621		80	110		
	InGaN	525		300	500		
APBA3010SURKCGKC-GX	AlGaInP	630	Water Clear	40	80	140°	3.0mm x 2.0mm x 1.0mm (Right Angle, Bi-Color)  APBA3010
	AlGaInP	570		40	70		
APBA3010SEKCGKC-GX	AlGaInP	605	Water Clear	80	150	140°	
	AlGaInP	570		40	70		
APBA3010SYKCGKC-GX	AlGaInP	590	Water Clear	80	120	140°	
	AlGaInP	570		40	70		



Units: mm (inch)
Tolerance: ± 0.15 (0.006)

Units: mm (inch)
Tolerance: ± 0.15 (0.006)

MULTI-COLOR SMD LED


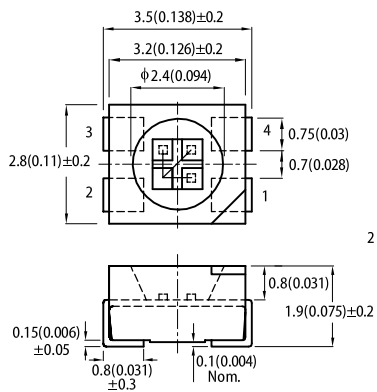
Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
APFA3010SURKCGKSYKC	AlGaInP	630	Water Clear	55	80	150°	3.0mm x 1.5mm x 1.0mm (Right Angle, Full Color)  APFA3010 Green 3, Yellow 4, Red 1 APFA3010SEEZGQBDC Green 3, Blue 4, Red 1 APFA3010SEEZGQBDC Units: mm (inch) Tolerance: ± 0.2 (0.008)
	AlGaInP	570		20	45		
	AlGaInP	590		120	180		
APFA3010SEEZGQBDC	AlGaInP	621	Water Clear	80	140	150°	3.0mm x 1.5mm x 1.0mm (Right Angle, Full Color)  APFA3010 Green 3, Yellow 4, Red 1 APFA3010SEEZGQBDC Green 3, Blue 4, Red 1 APFA3010SEEZGQBDC Units: mm (inch) Tolerance: ± 0.2 (0.008)
	InGaN	525		300	500		
	InGaN	465		40	70		
APFA3011-AK13/F	InGaN	470	Water Clear	80	150	150°	3.0mm x 1.5mm x 1.0mm (Right Angle, Full Color)  APFA3011 Blue 3, Red 5, Green 6 Units: mm (inch) Tolerance: ± 0.2 (0.008)
	AlGaInP	625		200	410		
	InGaN	525		500	780		
APB3025SURKCGKC-F01	AlGaInP	630	Water Clear	40	70	160°	3.0mm x 2.5mm x 1.1mm (Bi-Color)  APB3025 Red 1, Green 3 Units: mm (inch) Tolerance: ± 0.2 (0.008)
	AlGaInP	570		20	60		
APBL3025SURKCGK-F01	AlGaInP	630	Water Clear	120	300	50°	3.0mm x 2.5mm x 1.4mm (Bi-Color)  APBL3025 Red 1, Green 3 Units: mm (inch) Tolerance: ± 0.2 (0.008)
	AlGaInP	570		80	150		

MULTI-COLOR SMD LED


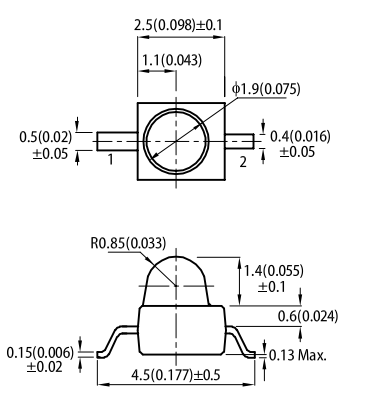

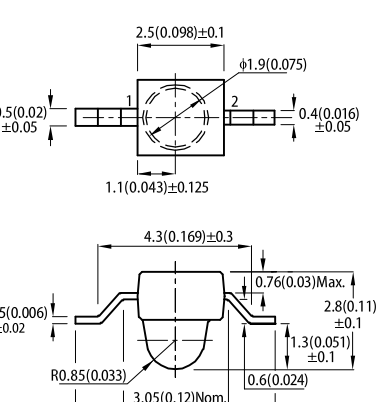
Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle	Dimensions
				Min.	Typ.		
APBDA3020SURKCGKC-GX	AlGaInP	630	Water Clear	120	300	15°	3.0mm x 2.8mm x 2.0mm (Right Angle, Dome Lens)
	AlGaInP	570		120	300		
APBDA3020CGKSYKC-GX	AlGaInP	570	Water Clear	120	280	15°	
	AlGaInP	590		400	700		
APBD3224SURKCGKC-F01	AlGaInP	630	Water Clear	120	400	20°	3.2mm x 2.4mm x 2.4mm (Dome Lens)
	AlGaInP	570		80	280		
APBD3224SYKCGKC-F01	AlGaInP	590	Water Clear	400	800	20°	
	AlGaInP	570		80	280		
APB3227SURKCGKC	AlGaInP	630	Water Clear	40	80	140°	3.2mm x 2.7mm x 1.1mm (Bi-Color)
	AlGaInP	570		20	55		
APF3236SEEZQBDC	AlGaInP	621	Water Clear	80	140	150°	3.2mm x 3.6mm x 1.1mm (Full Color)
	InGaN	525		300	450		
	InGaN	465		40	70		

AP series custom-made is available upon request

MULTI-COLOR SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ /2	Dimensions
				Min.	Typ.		
AAA3528SEEZGKBKS	AlGaInP	621	Water Clear	120	220	120°	3.5mm x 2.8mm x 1.9mm (Full Color)  AAA3528  Units: mm (inch) Tolerance: ± 0.25 (0.01)
	InGaN	525		500	700		
	InGaN	465		55	100		

SUBMINIATURE SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ /2	Dimensions
				Min.	Typ.		
AM2520SURCK03	AlGaInP	630	Water Clear	700	1200	20°	Subminiature Solid State Lamps Gull Wing Lead  AM2520xxx03  Units: mm (inch) Tolerance: ± 0.25 (0.01)
AM2520SYCK03	AlGaInP	590	Water Clear	1600	2700	20°	
AM2520CGCK03	AlGaInP	570	Water Clear	500	1000	20°	
AM2520QBC/D03	InGaN	465	Water Clear	500	1300	20°	
AM2520SURCK09	AlGaInP	630	Water Clear	700	1200	20°	
AM2520SECK09	AlGaInP	605	Water Clear	1900	3500	20°	Subminiature Solid State Lamps Z-Bend Lead  AM2520xxx09  Units: mm (inch) Tolerance: ± 0.25 (0.01)
AM2520CGCK09	AlGaInP	570	Water Clear	500	1000	20°	
AM2520QBC/D09	InGaN	465	Water Clear	500	1300	20°	

REVERSE MOUNT SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
APTR3216SURCK	AlGaInP	630	Water Clear	40	80	140°	3.2mm x 1.6mm x 1.05mm (1206 Reverse Mount) APTR3216 Units: mm (inch) Tolerance: ± 0.2 (0.008)
APTR3216SECK	AlGaInP	605	Water Clear	80	180	140°	
APTR3216SYCK	AlGaInP	590	Water Clear	80	150	140°	
APTR3216CGCK	AlGaInP	570	Water Clear	20	50	140°	
APTR3216QBC/D	InGaN	465	Water Clear	40	100	140°	
APTL3216SURCK-01	AlGaInP	630	Water Clear	120	230	80°	3.2mm x 1.6mm x 1.1mm (1206 Reverse Mount) APTL3216-01 Units: mm (inch) Tolerance: ± 0.1 (0.004)
APTL3216SECK-01	AlGaInP	605	Water Clear	200	350	80°	
APTL3216SYCK01	AlGaInP	590	Water Clear	200	350	80°	
APTL3216CGCK-01	AlGaInP	570	Water Clear	55	100	80°	
APTL3216QBC/D-01	InGaN	465	Water Clear	120	250	80°	
AA3528SURCKT09	AlGaInP	630	Water Clear	55	100	120°	3.2mm x 2.8mm x 1.9mm (Reverse Mount) AA3528xx09 Units: mm (inch) Tolerance: ± 0.25 (0.01)
AA3528SECKT/J309	AlGaInP	625	Water Clear	500	700	120°	
AA3528SYCKT09	AlGaInP	590	Water Clear	120	250	120°	
AA3528ZGCKT09	InGaN	525	Water Clear	500	1000	120°	
AA3528QBS/D09	InGaN	465	Water Clear	80	150	120°	
AAA3528SURKCGKC09	AlGaInP	630	Water Clear	55	100	120°	3.2mm x 2.8mm x 1.9mm (Reverse mount, Multi-Color) AAA3528xx09 AAA3528SURKCGKC09 AAA3528RBGS/08-09 Units: mm (inch) Tolerance: ± 0.2 (0.008)
	AlGaInP	570		40	80		
AAA3528RBGS/08-09	AlGaInP	630	Water Clear	55	110	120°	
	InGaN	465		55	100		
	InGaN	525		500	700		

AP series custom-made is available upon request