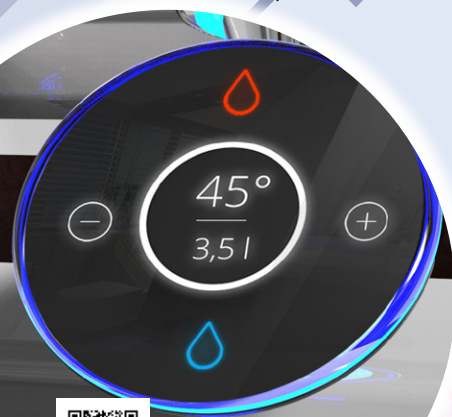
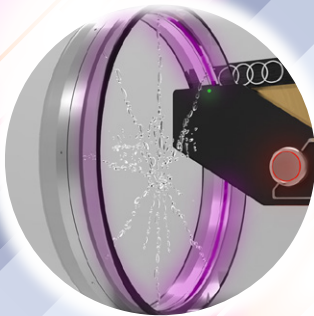
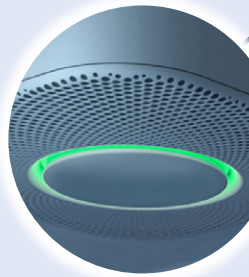


Kingbright

HELI colour

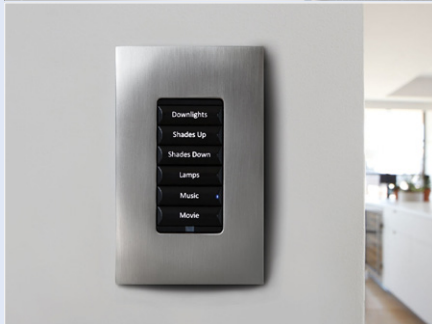
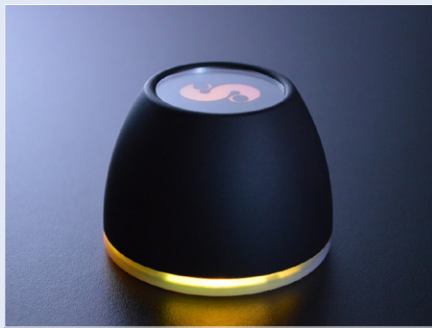
- Available in various industry standard SMD packages & sizes
- Perfect fit for applications with low power consumption and high efficiency needs
- Engineered as a total comprehensive solution from the HELI product series
- Designed for today's innovative hand-held devices & wearable products



LED SOLUTION GUIDE

High-brightness • Energy-efficient • Low-current • Illumination





BI-COLOR

- Low Current/ Low Vf requirements
- Best for battery operated devices

- Generates wide range of mixed colors
- Suitable for status indication & backlight

Flat Top • Low Current • Low VF

Part Number	I _F	λD (nm)	I _v (mcd)		Viewing Angle	Figure
			Min.	Typ.		
APHB1608LCGKSURKC	2mA	570 / 630	1.2 / 2	3 / 8	130°	1
APHB1608LCGKSYKC	2mA	570 / 590	1.2 / 6	3 / 10	130°	
APHB1608LZGKSURKC	2mA	525 / 630	20 / 2	40 / 8	130°	
APHB1608LSYKSURKC	2mA	590 / 630	6 / 2	10 / 8	130°	
APHB1608LZGKSYKC	2mA	525 / 590	20 / 6	40 / 10	130°	
APHB1608LVBZGKC	2mA	470 / 525	6 / 20	15 / 40	130°	
APHB1608LVBDEKJ3C	2mA	470 / 625	6 / 20	15 / 40	130°	2
APBHM2012LSURKCGKC	2mA	630 / 570	6 / 1.2	15 / 2	120°	
APBHM2012LCGKSYKC	2mA	570 / 590	1.2 / 6	3 / 10	120°	
APBHM2012LSURKZGKC	2mA	630 / 525	6 / 50	15 / 90	120°	
APBHM2012LSURKSYKC	2mA	630 / 590	6 / 6	15 / 10	120°	
APBHM2012LQBDSURKC	2mA	465 / 630	6 / 6	12 / 15	120°	
APBHM2012LZGKSYKC	2mA	525 / 590	50 / 6	90 / 10	120°	
APBHM2012LVBZGKC	2mA	470 / 525	10 / 50	20 / 90	120°	
APBHM2012LVBDEKJ3C	2mA	470 / 625	10 / 30	20 / 60	120°	
APBHM2012LVBDSYKJ3C	2mA	470 / 590	10 / 20	20 / 35	120°	
APTB1612LSURKCGKC	2mA	630 / 570	4 / 1.2	9 / 3	150°	3
APTB1612LSYKCGKC	2mA	590 / 570	4 / 1.2	10 / 3	150°	

Dome Lens • Low Current • Low VF

Part Number	I _F	λD (nm)	I _v (mcd)		Viewing Angle	Figure
			Min.	Typ.		
APBD3224LSURKCGKC	2mA	630 / 570	10 / 10	30 / 30	20°	4
APBD3224LSYKCGKC	2mA	590 / 570	10 / 10	35 / 30	20°	
APBD3224LSURKZGKC	2mA	630 / 525	10 / 120	30 / 250	20°	
APBD3224LSURKSYKC	2mA	630 / 590	10 / 20	30 / 50	20°	
APBD3224LQBDCGKC	2mA	465 / 570	12 / 10	30 / 30	20°	
APBD3224LSURKQBDC	2mA	630 / 465	10 / 20	30 / 40	20°	
APBD3224LZGKSYKC	2mA	525 / 590	50 / 20	150 / 50	20°	



TRI-COLOR

- Available in top-emitting and side-firing
- Low Current/ Low Vf requirements
- Available in different footprints
- Display multiple statuses in one LED

Low Current • Low Vf

Part Number	I _F	λD (nm)	Iv (mcd)		Viewing Angle	Figure
			Min.	Typ.		
AAA3528LSEEZGKBKS	2mA	621 / 525 / 465	10 / 80 / 12	20 / 180 / 30	120°	5
AAA3528LSEKJ3ZGKBKS	2mA	625 / 525 / 465	30 / 80 / 12	60 / 180 / 30	120°	
AAAF3529LSEEZGKBKS	2mA	621 / 525 / 465	10 / 80 / 12	20 / 180 / 30	130°	6
AAAF3529LSEKJ3ZGKBKS	2mA	625 / 525 / 465	30 / 80 / 12	60 / 180 / 30	130°	
APF3236LSEEZGKBKC	2mA	621 / 525 / 465	6 / 20 / 4	15 / 60 / 10	150°	7
APFA2507LQBDSEEZGKC	2mA	465 / 621 / 525	4 / 6 / 20	10 / 10 / 60	130°	8
APFA3010LSEEZGKBKC	2mA	621 / 525 / 465	6 / 20 / 4	15 / 60 / 10	150°	9
APFA3010LSEKJ3ZGKBKC	2mA	625 / 525 / 465	20 / 20 / 4	40 / 60 / 10	150°	
APTF1616LSEKJ3ZGKBKC	2mA	625 / 525 / 465	20 / 20 / 6	40 / 50 / 14	130°	10
APTF1616LSEEZGKBKC	2mA	621 / 525 / 465	6 / 20 / 6	15 / 50 / 14	130°	

Top Emitting

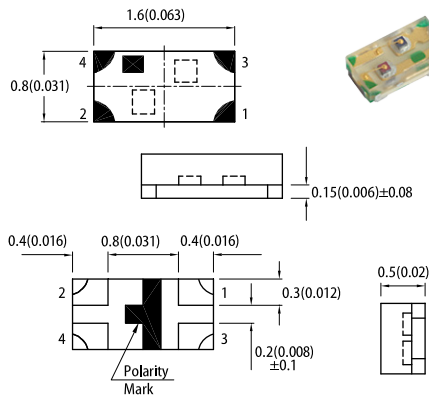
Part Number	I _F	λD (nm)	Iv (mcd)		Viewing Angle	Figure
			Min.	Typ.		
AAA3528SEEZGVBDS	20mA	621 / 525 / 470	120 / 1000 / 200	220 / 1600 / 330	120°	5
AAA3528SEEZGKBKS	20mA	621 / 525 / 465	120 / 400 / 55	220 / 500 / 100	120°	
AAA3528SEKJ3ZGKBKS	20mA	625 / 525 / 465	400 / 400 / 80	500 / 600 / 200	120°	
AAAF3529SEEZGKBKS	20mA	621 / 525 / 465	80 / 400 / 80	180 / 580 / 130	130°	6
APF3236SEEZGKBKC	20mA	621 / 525 / 465	80 / 200 / 40	140 / 330 / 70	150°	7
APTF1616SEEZGKBKC	20mA	621 / 525 / 465	55 / 120 / 40	110 / 280 / 70	130°	10
APTF1616SEKJ3ZGKBKC	20mA	625 / 525 / 465	200 / 120 / 40	350 / 280 / 70	130°	

Side Emitting

Part Number	I _F	λD (nm)	Iv (mcd)		Viewing Angle	Figure
			Min.	Typ.		
APFA2507QBDSEEZGKC	20mA	465 / 621 / 525	40 / 80 / 300	65 / 110 / 500	130°	8
APFA3010SEEZGKBKC	20mA	621 / 525 / 465	80 / 300 / 40	140 / 500 / 70	150°	9
APFA3010SEKJ3ZGKBKC	20mA	625 / 525 / 465	200 / 300 / 40	410 / 500 / 70	150°	

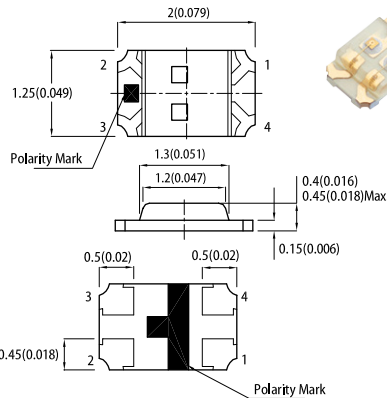
APHB1608 package

Figure 1



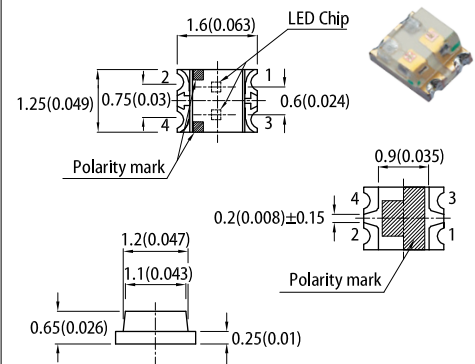
APHBM2012 package

Figure 2



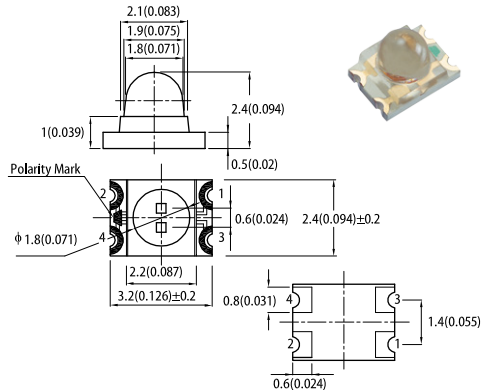
APTB1612 package

Figure 3



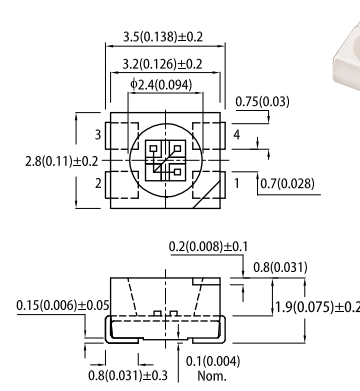
APBD3224 package

Figure 4



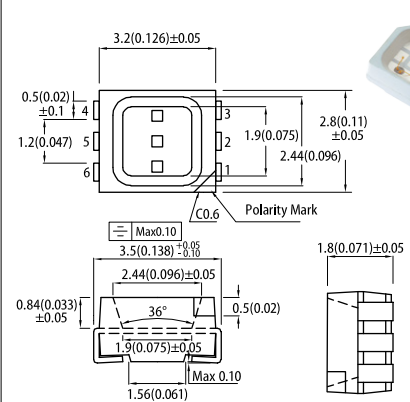
AAA3528 package

Figure 5



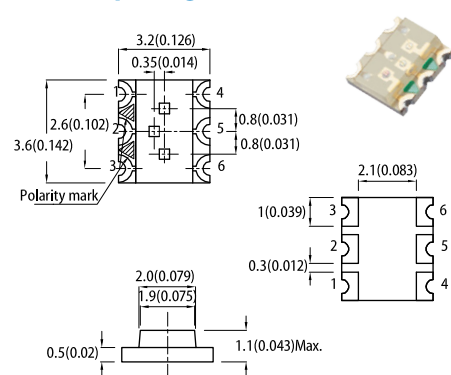
AAAF3529 package

Figure 6



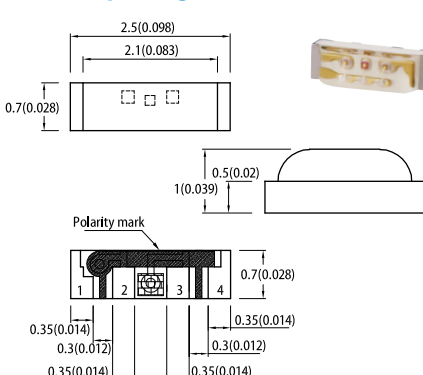
APF3236 package

Figure 7



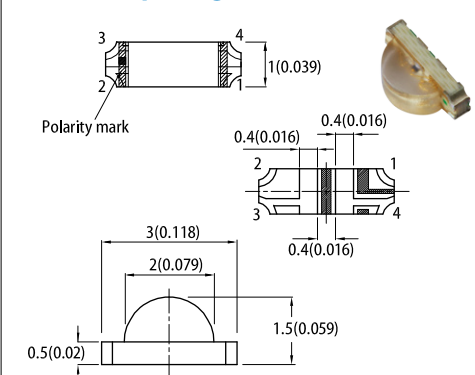
APFA2507 package

Figure 8



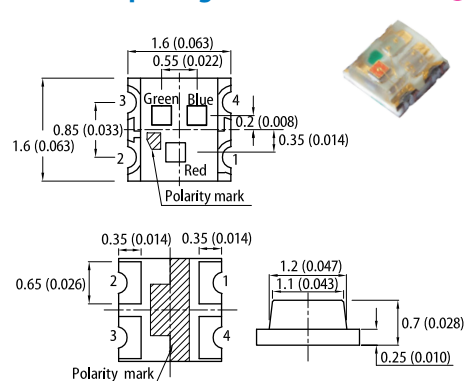
APFA3010 package

Figure 9



APTF1616 package

Figure 10



About KINGBRIGHT

A Leader in the LED Manufacturing Industry for More than 40 Years

As one of the top LED manufacturers, Kingbright exceeds many expectations worldwide with its unsurpassed manufacturing capabilities. We are deeply ingrained in the pursuit of excellence, manufacturing the most comprehensive, reliable and highest quality LEDs in both visible and invisible spectrums to meet various engineering needs in all industries for customers around the globe. It is our core mission to achieve innovation through investing in R&D and to develop high efficiency LEDs with the latest standards. Our factory in China is accredited with IATF16949, ISO9001, ISO14001 certifications and all of our parts are in compliance with the latest RoHS and REACH Directive. To learn more about our products, please visit us at KingbrightUSA.com.

Kingbright

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