



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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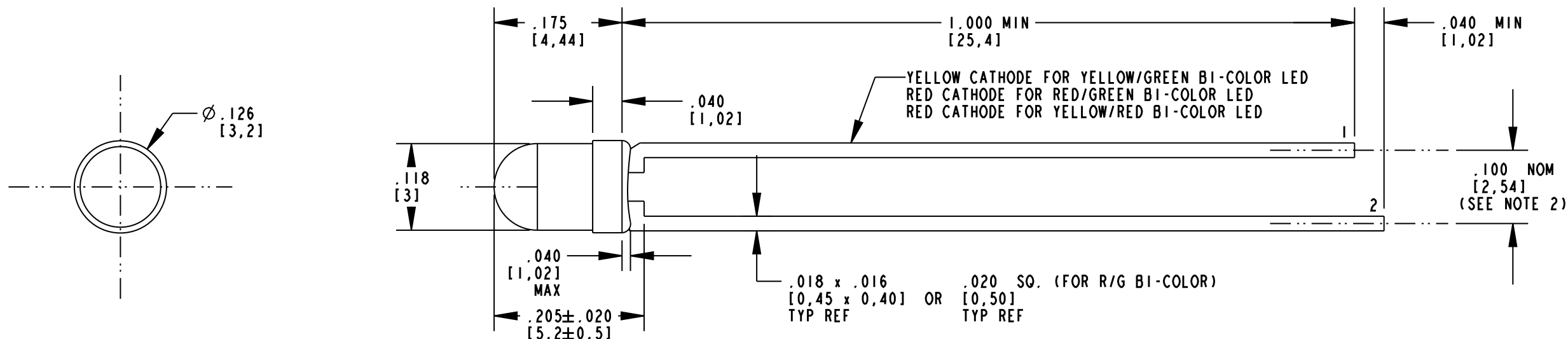


DIALIGHT PART NUMBER	LED COLOR	LED DIE	LENS COLOR
521-9478F	YELLOW/GREEN BI-COLOR	GaAsP/GaP YELLOW / GaP GREEN	WHITE DIFF.
521-9459F	RED/GREEN BI-COLOR	GaAsP/GaP RED / GaP GREEN	WHITE DIFF.
521-9768F	RED/YELLOW BI-COLOR	GaAsP/GaP RED / GaAsP/GaP YELLOW	WHITE DIFF.

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A		NEW RELEASE	KLJ	NO	MES	11-4-08
B		ADDED LED DIE INFO. TO TABLE	AJF	KLJ	NO	6-16-10

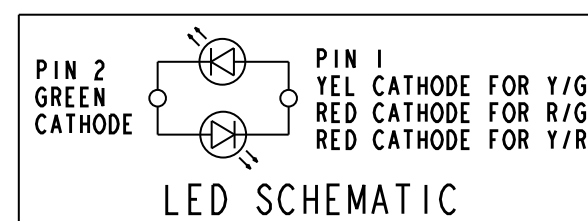
### RoHS COMPLIANT 521-9XXXF

Part Numbers with the "F" suffix ending are RoHS Compliant.  
 For Example: 521-9768F  
 Packaging is marked with "RoHS Compliant" label or equivalent markings. Parts can be wave soldered, dip soldered or hand soldered using typical lead-free soldering process with max 260°C temp. for 5 sec.



#### NOTES:

- LENS COLOR: WHITE DIFFUSED
- LEAD SPACING MEASURED NEAR EPOXY PACKAGE.
- LEADS TO FIT INTO HOLES SPACED AS PER PATTERN.
- LEADS: SILVER (Ag) OVER COPPER (Cu) OVER NICKEL (Ni) ON COPPER (Cu).
- PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- DIALIGHT PART NUMBERS: 521-9478F, 521-9459F, 521-9768F
- PACKAGING: BULK
- LABELING: BAGS TO BE IDENTIFIED WITH DIALIGHT P/N, QTY, DATE CODE, AND INTENSITY AND COLOR BIN CATEGORIES.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.



OPERATING CHARACTERISTICS AT 25°C AMBIENT								
LED	COLOR	PEAK WAVELENGTH (nm)	DOMINANT WAVELENGTH (nm)	VIEWING ANGLE (°)	LUMINOUS INTENSITY (mcd) @ I <sub>F</sub> =10 mA		FORWARD VOLTAGE (V) @ I <sub>F</sub> =20 mA	
		TYP	TYP	TYP	MIN	TYP	TYP	MAX
RED/GREEN BI-COLOR	RED	635	—	60	2.5	4.7	2.0	2.8
	GREEN	565	—		3.7	10	2.1	2.8
YELLOW/GREEN BI-COLOR	YELLOW	585	586	80	* 2.5	* 4.3	2.1	2.8
	GREEN	565	569		* 2.5	* 6.3	2.1	2.8
RED/YELLOW BI-COLOR	RED	630	—	80	* 1.7	* 5.6	2.0	2.8
	YELLOW	585	—		* 1.7	* 5.6	2.1	2.8

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT	R/G BI-COLOR		Y/G BI-COLOR		R/Y BI-COLOR		UNITS
	RED	GREEN	YELLOW	GREEN	RED	YELLOW	
POWER DISSIPATION	100	100	60	100	100	60	mW
CONTINUOUS FORWARD CURRENT	30	30	20	30	30	20	mA
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 10 ms PULSE WIDTH)	120	120	80	120	120	80	mA
DERATING LINEAR FROM 50°C	0.4	0.4	0.25	0.4	0.4	0.25	mA/°C
REVERSE VOLTAGE	5						V
SOLDERING TEMPERATURE (.063" FROM BODY FOR 5 SECONDS)	260						°C
OPERATING TEMPERATURE	-55 TO +100						°C
STORAGE TEMPERATURE	-55 TO +100						°C



**ATTENTION:**  
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

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SCALE: 6.000	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-17675	B
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	
FRACTIONS: ±1/64	Ø 3mm BI-COLOR LED	
DECIMALS (.XX): ±.02	RoHS COMPLIANT	
DECIMALS (.XXX): ±.010	MATERIAL	
ANGLES: ±3°	Dialight	
FINISH:	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727	
FSCM 83330	SHEET 1 OF 1	FAMILY TABLE: