## **DISPLAY LCM LCD**

#### LED Series

KLS9-L Bi Color LED Lamp Series

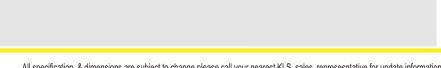
# $\frac{\text{KLS9}}{1} - \frac{\text{L}}{2} - \frac{501}{3} + \frac{3}{4} + \frac{\text{G}}{5} + \frac{\text{D}}{6} - \frac{\text{XXX}}{7}$

- 1. Brank: KLS ELECTRONIC
- 2. Digit Mode: L-Lamp
- 3. Package Type (style):
- 4. Leads Type:
  - 0: Surface Mounting Lead for SMD
  - 2: 18mm Lead Length Standard
  - 4: 25.4mm Lead Length with small Reflector
  - 7: 25.4mm Lead Length with 2 Leads for bi-color
- 1: 20mm Lead Length with Stand-off
- 3: 25.4mm Lead Length with big Reflector
- 5: 25.4mm Lead Length with 3 Leads for bi-color
- 9: 25.4mm Lead Length with 3 Leads for bi-color

5. Color Code:

H: Red	GaP / GaP	700nm	UG: High Bright Green	AlGaInP 574nm
S: High Bright Red	GaAlAs / GaAs	SH 660nm	PG: Super Pure Green	AlGaInP 525nm
D: Super Bright Red	GaAlAs / GaAs	DH 660nm	BG: Super Bluish Green	AlGaInP 505nm
UR: Ultra Bright Red	GaAlAs / GaAlAs	DDH 660nm	B: Blue GaN / SiC	430nm
UHR: Ultra Bright Red	AlGaInP	640nm	UB: Super Bright Blue	InGaN / SiC 470nm
E: Orange	GaAsP / GaP	635nm	V: UV	InGaN / SiC405nm
UE: High Bright Orange	AlGaInP	630nm	W: White	
Y: Yellow	GaAsP / GaP	585nm	EG: Orange + Green Bi-Color	
UY: High Bright Yellow	AlGaInP	590nm	SG: High Red + Green Bi-Color	
G: Green	GaP / GaP	568nm	RGB: Multicolor	

6. Len Color: D: Color Diffused T: Color Transparent C: Water Clear W: White Diffused CD: Color Top Diffused WD: White Top Diffused E: Orange Diffused 7. Special Operation & Other:



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	Part No. KLS9L-	Chip			Absolute Maximum Ratings				Electro-optical Data(At 20mA)					
Package		Material/Emitted Color	Peak Wave Length λp (nm)	Lens Appearance	Δλ (nm)	Pd (mw)	If (mA)	Peak (mA)	Vf Typ	(V) Max	Iv (mcd) Typ	Viewing Angle 201/2 (deg)	Drawing No.	
	3015EGW	GaAsP/GaP Orange	635	Water diffused	35	80	30	150	2.10	2.50	15			
T-1 Standard	50152011	GaP/GaP Green	568	Water diffused	30	80	30	150	2.20	2.50	10	- 60	L-014	
1.0"	3015YGW	GaAsP/GaP Yellow	585	Water diffused	35	80	30	150	2.10	2.50	10			
Lead	30131GW	GaP/GaP Green	568	Water diffused	30	80	30	150	2.20	2.50	10			
φ3	3015UE UGW	AlGaInP/Ultra Orange	630	Water diffused	17	65	30	150	2.10	2.50	180			
	UGW	AlGaInP/Ultra Green	574	Water diffused	30	75	30	150	2.20	2.50	120			
T-1	3017EGW	GaAsP/GaP Orange	635	Water diffused Water diffused	35 30	80 80	30 30	150	2.10	2.50 2.50	15 10	-		
Standard		GaP/GaP Green GaAsP/GaP Yellow	568 585	Water diffused	30	80	30	150 150	2.20	2.50	10			
1.0"	3017YGW	GaP/GaP Green	568	Water diffused	30	80	30	150	2.10	2.50	10	60	L-015	
Lead		AlGaInP/Ultra Orange	630	Water diffused	17	65	30	150	2.20	2.50	180			
φ3	3017UE UGW	AlGaInP/Ultra Green	574	Water diffused	30	75	30	150	2.20	2.50	120	-	ĺ	
						3.9 (0.154) 4.5 (0.177) (0.031) (0.039Max)								
4.5 (0.177) 0.8 (0.031) (0.039Max)														
(	2.0 0.079)	254 (1.00Min) (2.04) (2.54) (1.00Min) (0.039Min) (0.0	0.5			(0.0	1.0	2.54	25.4 (1.00Min)		0.5 (0.020)			
		GREEN RED ORANGI PIN1 ANODE PIN2 CATHODE CATHODE PIN3 ANODE	)E						PIN1 A	REEN OR	RED ANGE LLOW HODE			

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## LED Series

#### KLS9-L Bi Color LED Lamp Series

	Part No. KLS9L-	Chip			A	Absolute Maximum Ratings				Electro-optical Data(At 20mA)			
Package		Material/Emitted Color	Peak Wave Length λp (nm)	Lens Appearance	Δλ (nm)	Pd (mw)	If (mA)	Peak (mA)	Vf Typ	(V) Max	Iv (mcd) Typ	Viewing Angle 201/2 (deg)	Drawing No.
T-1 3/4	5019EGW	GaAsP/GaP Orange	635	Water diffused	35	80	30	150	2.10	2.50	20	-	
Standard		GaP/GaP Green	568 585	Water diffused	30 35	80 80	30 30	150 150	2.20	2.50 2.50	15 15	- 60	L-016
1.0"	5019YGW	GaAsP/GaP Yellow GaP/GaP Green	568	Water diffused	30	80	30	150	2.10	2.50	15		
Lead	5019UE	AlGaInP/Ultra Orange	630	Water diffused	17	65	30	150	2.20	2.50	190		
φ5	UGW	AlGaInP/Ultra Green	574	Water diffused	30	75	30	150	2.20	2.50	130		
		GaAsP/GaP Orange	635	Water diffused	35	80	30	150	2.10	2.50	20	-	
T-1 3/4	5017EGW	GaP/GaP Green	568	Water diffused	30	80	30	150	2.20	2.50	15		
Standard		GaAsP/GaP Yellow	585	Water diffused	35	80	30	150	2.10	2.50	15		L 017
1.0" Lead	5017YGW	GaP/GaP Green	568	Water diffused	30	80	30	150	2.20	2.50	15	60	L-017
φ 5	5017UE UGW	AlGaInP/Ultra Orange	630	Water diffused	17	65	30	150	2.10	2.50	190	-	
		AlGaInP/Ultra Green	574	Water diffused	30	75	30	150	2.20	2.50	130		
5.0 (0.232) (0.232) (0.120) (0.197) (0						5.9 (0.232) 7.6 (0.300) 7.6							
	2.0 (0.079)	(0.0 (0.039) (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0)		) 			1.0 0.039)	₹ <u>2.54</u> (0.10)	25.4 (1.00Min) 3	(0.0	(0.0		-
		PIN1 ANODE PIN2 CATHODE CAT	ED ANGE LOW HODE IODE						PIN1 PIN2	GREEN ANODE CATHOD	RED ORANGE YELLOW CATHODE		

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