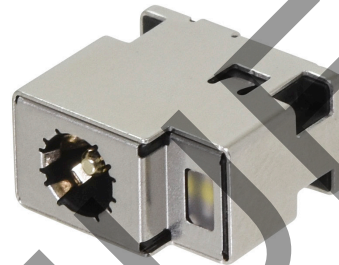


**MODEL:** PJ-099H-LED | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 1.65 mm center pin
- 5.0 A rating
- shielded
- vertical orientation
- LED

**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
rated input voltage			24		Vdc
rated input current				5.0	A
contact resistance <sup>1</sup>	between terminal and mating plug			50	mΩ
	between terminal in a closed circuit			30	mΩ
insulation resistance	at 500 Vdc between adjacent contacts	100			MΩ
voltage withstand	for 1 minute, 0.5 mA between adjacent contacts			500	Vac
insertion/withdrawal force		0.3		3	kg
operating temperature		-25		85	°C
life	at a rate of 24 cycles/minute		5,000		cycles
flammability rating	UL94V-0				
RoHS	yes				

Note: 1. When measured at a current of less than 100 mA/1 kHz  
2. All specifications measured at 10-35°C, humidity at 45-85%, under standard atmospheric pressure, unless otherwise noted.

**SOLDERABILITY**

parameter	conditions/description	min	typ	max	units
hand soldering	for max 5 seconds			300	°C

**LED ABSOLUTE MAXIMUM RATINGS (TA=25°C)**

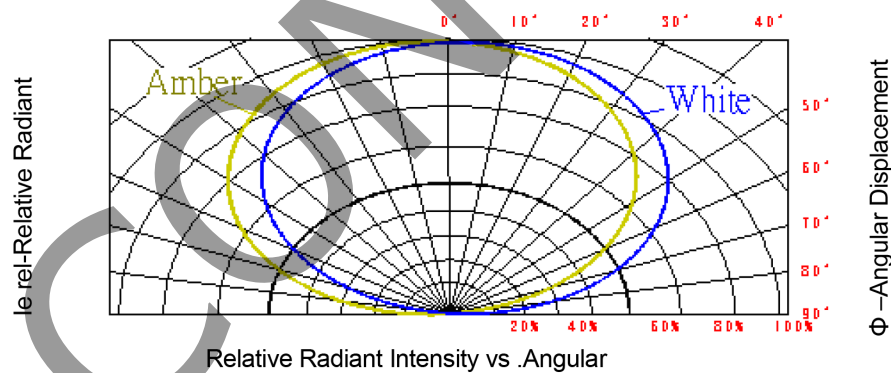
parameter	conditions/description	min	typ	max	units
power dissipation (PD)	amber			52	mW
	white			74	mW
DC forward current (IF)	amber			20	mA
	white			20	mA
pulsed forward current (IFP) <sup>3</sup>	amber			90	mA
	white			90	mA
reverse voltage (VR)	amber			5	V
	white			5	V

Note: 3. Duty cycle 1/10, pulse width 0.1 ms.

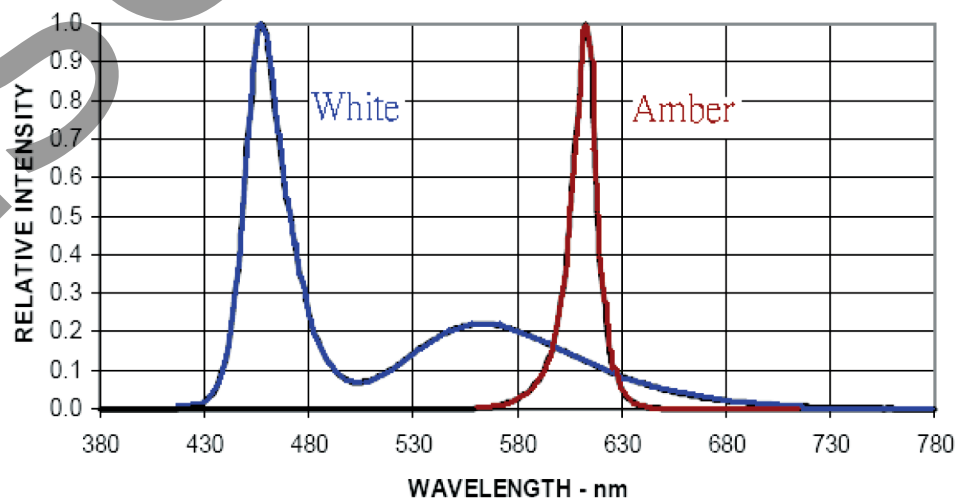
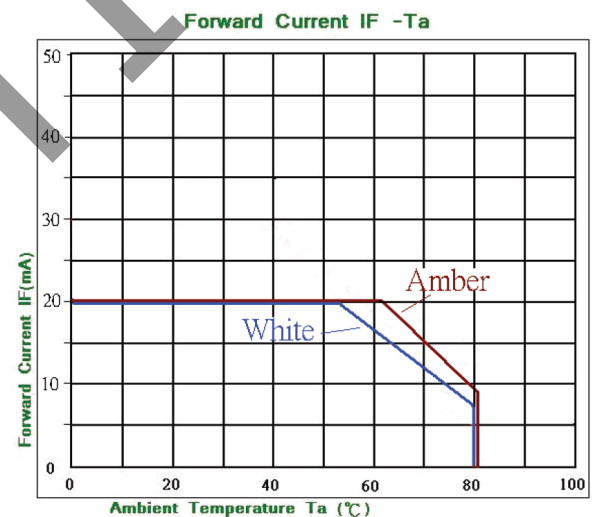
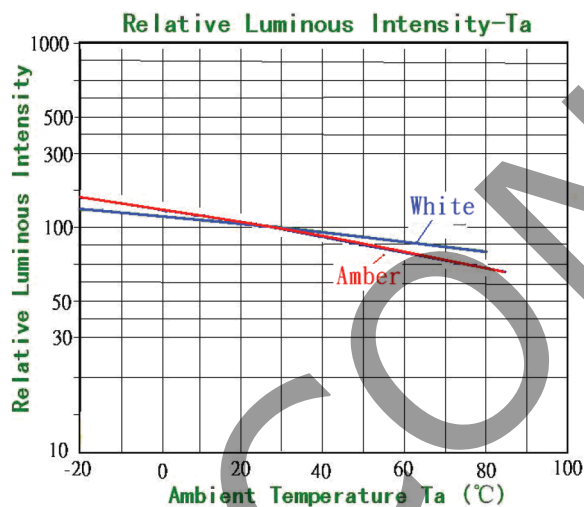
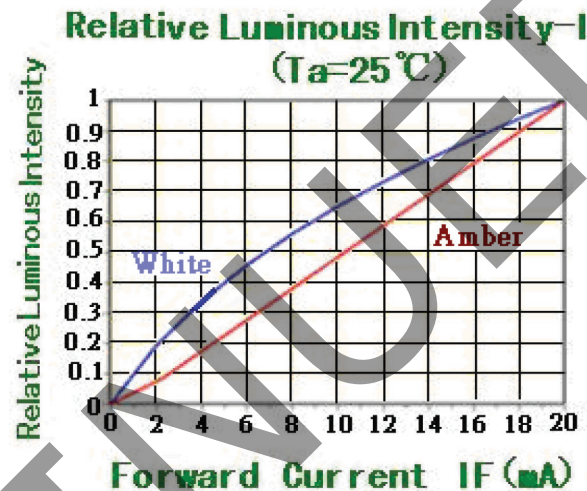
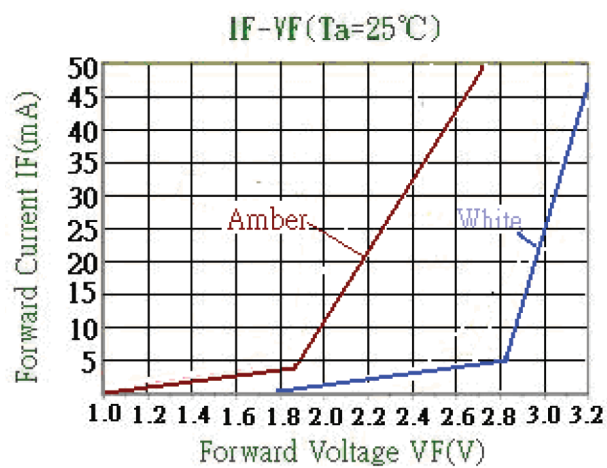
**LED ELECTRO-OPTICAL CHARACTERISTICS (TA=25°C)**

parameter	conditions/description	min	typ	max	units
forward voltage (Vf)	at If=20 mA	1.7	2.0	2.6	V
	amber white	2.8	3.3	3.7	V
luminous intensity (Iv)	at If=20 mA	37.6	520	192.4	mcd
	amber white	100		1150	mcd
wavelength (λd)	at If=20 mA	600		612	nm
	amber white X Y		0.28 0.26		
reverse current (Ir)	at Vr=5 V			10	μA
viewing angle (2θ1/2)	at If=20 mA		130		deg

Note: 4. Luminous intensity ±10%; forward voltage ±0.1 V; wavelength ±0.5 nm, (X,Y) ±0.01 is standard testing.

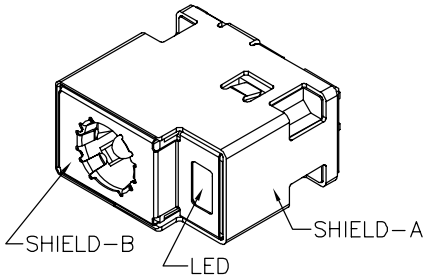


## LED CHARACTERISTIC CURVES

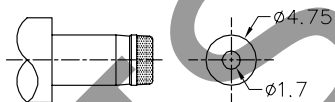
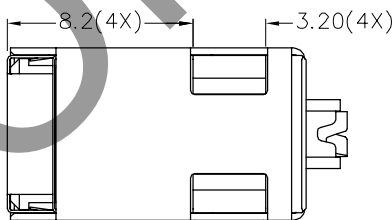
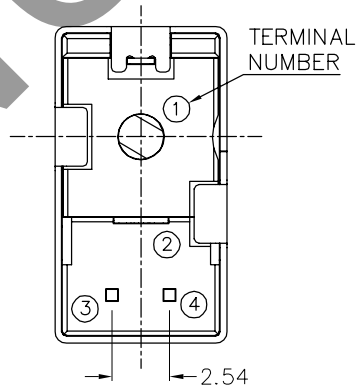
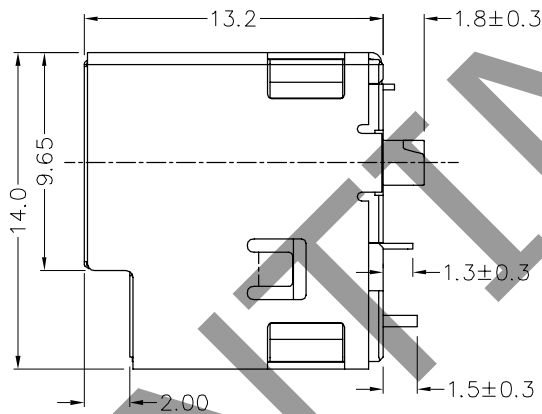
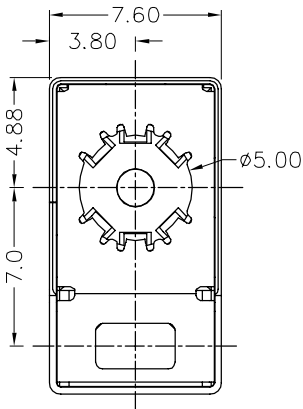


MECHANICAL DRAWING

units: mm  
tolerance:  
X.X  $\pm 0.2$  mm  
X.XX  $\pm 0.10$  mm  
X.XXX  $\pm 0.050$  mm



	MATERIAL	PLATING
center pin	copper	gold flash
terminal 1	copper	gold flash
terminal 2	copper alloy	gold flash
terminal 3	iron alloy	silver
terminal 4	iron alloy	silver
shield-A	brass	nickel
shield-B	stainless steel	
insulator	PA66	



MATING PLUG  
Jack Insertion Depth: 8.4 mm

SCHEMATIC	
Model	PJ-099H-LED
Center Pin	$\varnothing 1.65$ mm

The diagram shows a rectangular component with two pins. Pin 3 (+) is on the left and is connected to the 'AMBER' label. Pin 4 (+) is on the right and is connected to the 'WHITE' label. Arrows indicate the current flow from the pins into the component.

NODE		COLOR
PIN 3(+)	PIN 4(-)	AMBER
PIN 3(-)	PIN 4(+)	WHITE

## REVISION HISTORY

rev.	description	date
1.0	initial release	12/17/2018
1.01	brand update	10/25/2019
1.02	logo, datasheet style update	08/05/2022

The revision history provided is for informational purposes only and is believed to be accurate.



CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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