



Recommended PCB Layout (top view)

**Materials and Finish**

Housing Material:  
thermoplastic,  
UL 94V-0 rated,  
Color: black

Contact Material:  
phosphor bronze

Contact Plating Options:  
Standard: 0.0001" nickel  
underplating, selectively plated  
0.000015" gold on contact  
area, tin-lead on soldertails  
50 Option: 0.0001" nickel  
underplating, selectively plated  
0.000050" gold on contact  
area, tin-lead on soldertails

Shield: 0.25 thick copper alloy,  
tin-lead plated

**Electrical Characteristics**

Insulation Resistance:  
500 Megohms min.

Voltage Rating: 150V AC

Contact Resistance:  
20 milliohms max.

Current Rating:  
1.5 amps

Operating Temperature:  
-40°C to +85°C

Durability Rating:  
500 mating cycles min.

**LED Schematics**

	Pin No.	Single Color (G, R, or Y)	Pin No.	Pin No.	Bi-Color (GR)	Pin No.	Pin No.	Bi-Color (GY)	Pin No.
LED 1	12	+	11	-	Green Red	12	11	Green Yellow	12
LED 2	10	+	9	-	Green Red	10	9	Green Yellow	10

**LED Characteristics**

LED Color	Forward DC Current (units: mA)	Forward Voltage (units: V)	Reverse Voltage (units: V)	Power Dissipation (units: mW)
green	25	2.2 Typ. (2.5 Max.)	5	105
red	30	2.0 Typ. (2.5 Max.)	5	105
yellow	30	2.1 Typ. (2.5 Max.)	5	105

**Part Number / Ordering Information**

Complete P/N Example:	GWL G - S1 2 8 8 GR / Y 50										
P/N Breakdown:	Series	Type	dash	Shield Type	No. of Ports	No. of Positions per Port	No. of Contacts per Port	LED 1 Color	slash	LED 2 Color	Contact Area Plating
Available Options:	GWL = right angle modular jack w/integrated LED's	G = ganged	dash	S1 = fully shielded w/top & side spring shield grounding tabs	2 = 2 ports	8 = 8 contact positions per port	8 = 8 contacts per port	G = green R = red Y = yellow GR = bi-color green/red GY = bi-color green/yellow	slash	G = green R = red Y = yellow GR = bi-color green/red GY = bi-color green/yellow	blank = standard 50 = 50u" option

**Tolerances**

X.X ± 0.30  
X.XX ± 0.20  
Unless Stated  
Otherwise



REV.	DATE	DESCRIPTION	REV. BY	CHK. BY	DRAWN BY	DATE
A0	1/8/03	New Drawing	C. Leiva	T. Gokcek	C. Leiva	1/8/03
A1	5/29/03	Release Drawing	T. Gokcek	C. Leiva		
A2	6/20/03	ECO #03-027	C. Leiva	T. Gokcek		
A3	3/1/04	ECO #04-020	C. Leiva	H. MA		

**GWLG-S1288x/x**  
x = LED color

Right Angle Thru-Hole Ganged Modular Jack w/ LEDs  
2 port, fully shielded w/ grounding tabs

