

IR Chip-ORT 809LIRA

1. Scope:

• This specification applies to GaAlAs/GaAlAs infrared emitting diode chips.

2. Structure:

Mesa Type: rough surface.

Electrodes:

P (Anode) Side: gold alloy. N (Cathode) Side: gold alloy.

3. Size:

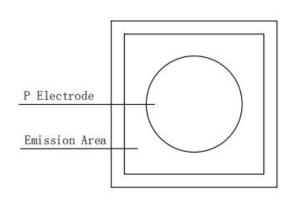
• Top Size: $190\mu \text{m} \times 190\mu \text{m} \pm 30\mu \text{m}$; Bottom Size: $220\mu \text{m} \times 220\mu \text{m} \pm 30\mu \text{m}$

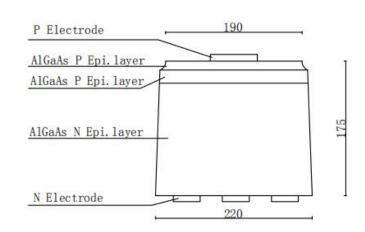
Chip Height: 175μm±45μm
 Pad Size: 112μm±20μm
 Pattern Drawing: fig.1.

4. Electro-Optical Characteristics:

(Ta=+25°C)

Parameter	Symbol	Unit	Min	Тур	Max	Test Condition
Forward voltage	V _F	V		1.45	1.55	I _F =20mA
Reverse voltage	V_R	V	5			I _R =10µA
Peak wavelength	W_{LP}	nm	840			I _F =20mA
Radiated output Power	Po	mw	2.2			I _F =20mA





unit: µm

fig.1

5. Packing and Labeling:

- Packing: Sheet Type
- Each pellet is mounted on an adhesive sheet with wire-bonded electrode side up.
- Labeling: Each lot has a label sheet writing Type Lot No√Pcs√Avg Po√VF√

W_{LP} and quantity of good chips.



深圳市奥伦德科技股份有限公司

Shenzhen Orient Tech Ltd . Co ., Ltd

6. Application Notes:

- All data are measured by Orient's tester on bare chips within 98% of the nominal value.
- ullet Measurement error for dominant wavelength and peak wavelength is $\pm 5 \mathrm{nm}$

7. Storage and transportation

- Chips should be stored at ambient temperatures of 0-40 degrees Celsius.Relative humidity is less than 90%.No acid, alkali or other corrosive gases shall be allowed in the surrounding environment. The storage life of general packaging products is one year, If the product exceeds the storage period, the company's inspection department shall conduct a re-inspection according to the ex-factory inspection. After passing the inspection can be used.
- Packaged products can be transported by any means. During transportation, it is necessary
 to avoid mechanical damage .such as rain and snow intrusion, long sunshine, extrusion and impact,
 and not to contact corrosive gases

Add: Block A 3rd Floor No.4 Building Tian An Cyber Park Huang Ge Rd, Long Gang Dist, Shenzhen, Guangdong, 518172 Web: www.orient-opto.com