

SPECIFICATION OF LED ARRAY

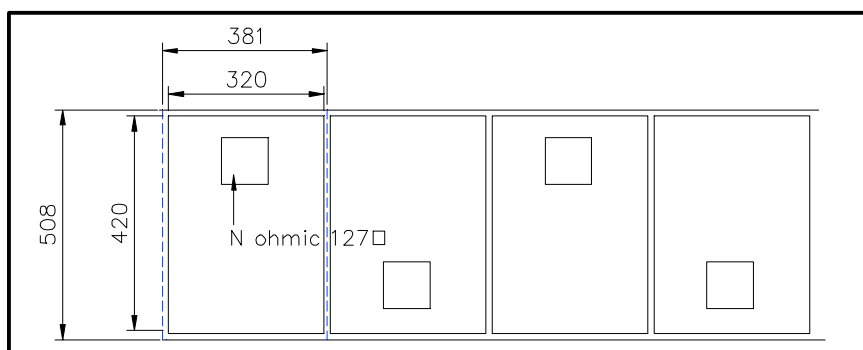
AR880-20

[INFRARED]

Specifications

- | | |
|--------------------------|--|
| 1) Product Name | 20 Element LED array |
| 2) Type No. | AR880-20 |
| 3) Chip | See figure |
| (1) Chip Material | AlGaAs/GaAs |
| (2) Peak Wavelength | 880nm typ. |
| (3) Emitting Area | 320x420um as photomask |
| (4) Element Dimension | 381 x 508um as photomask |
| (5) Chip Dimension | 7620 x 508um as photomask |
| (6) Elements Number | 20 Elements /Chip |
| 4) Pad Metal & Dimension | |
| (1) Front Side (Pad) | Cathode Gold 127um square as photomask |
| (2) Back Side (Die) | Anode Gold |

Figure of AR880-20



Absolute Maximum Ratings [Ta=25°C]

Item	Symbol	Maximum Rated Value	Unit
Power Dissipation per Segment	P _D	170	mW
Forward Current per Segment	I _F	125	mA
Reverse Voltage per Segment	V _R	5	V
Operating Temperature	T _{OPR}	-30 ~ +60	°C
Storage Temperature	T _{STG}	-55 ~ +90	°C

Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage per Segment	V _F	I _F =100mA		1.60	1.80	V
Reverse Current	I _R	V _R =5V			10	uA
Leakage Current at each Segment	I _L	V _R =5V			10	uA
Output Power per Segment	P _O	I _F =100mA	5.0	8.0		mW
Peak Wavelength	λ _P	I _F =100mA	870	880	895	nm
Half Width	Δλ	I _F =100mA		80		nm

Output Power of each LED is +/-30% of array output average.

Output Power of Element is calibrated by Photodyne #500

EPITEX INC. : 4, Nishiaketa-Cho, Higashi-Kujyuu, Minami-Ku, Kyoto, Japan

Tel.: ++81-75-682-2338 Fax: ++81-75-682-2267

e-mail: sales-dep@epitex.com

<http://www.epitex.com>