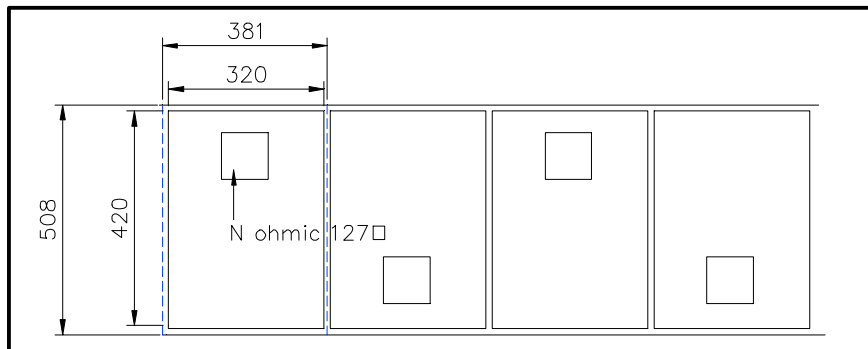


## SPECIFICATION OF LED ARRAY AR880-20 [INFRARED]

**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 <sub>D</sub>	170	mW
Forward Current per Segment	I <sub>F</sub>	125	mA
Reverse Voltage per Segment	V <sub>R</sub>	5	V
Operating Temperature	T <sub>OPR</sub>	-30 ~ +60	°C
Storage Temperature	T <sub>STG</sub>	-55 ~ +90	°C

**Electro-Optical Characteristics**

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage per Segment	V <sub>F</sub>	I <sub>F</sub> =100mA		1.60	1.80	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V			10	uA
Leakage Current at each Segment	I <sub>L</sub>	V <sub>R</sub> =5V			10	uA
Output Power per Segment	P <sub>o</sub>	I <sub>F</sub> =100mA	5.0	8.0		mW
Peak Wavelength	I <sub>P</sub>	I <sub>F</sub> =100mA	870	880	895	nm
Half Width	DI	I <sub>F</sub> =100mA		80		nm

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

Output Power of Element is calibrated by Photodyne #500

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