



# Linear Arrays

**GAP80LA-4**  
**GAP80LA-8**  
**GAP80LA-12**  
**GAP80LA-16**

## Electrical Characteristics @ 23 °C ± 2 °C and VR=5 V

	GAP80LA-4	GAP80LA-8	GAP80LA-12	GAP80LA-16	Units
Active Diameter	80	80	80	80	µm
Number of elements	4	8	12	16	
Peak Wavelength (typ)	1.52±0.1	1.52±0.1	1.52±0.1	1.52±0.1	µm
Cutoff Wavelength (50%)	1.65±0.1	1.65±0.1	1.65±0.1	1.65±0.1	µm
Responsivity @ 1.55 µm (min/typ)	0.9/1.0	0.9/1.0	0.9/1.0	0.9/1.0	A/W
Dark Current (max)	0.05	0.05	0.05	0.05	nA
Optical Isolation	50	50	50	50	-dB
Capacitance (typ)	0.8	0.8	0.8	0.8	pF
Bandwidth w/50 Ω (typ)	2.5	2.5	2.5	2.5	GHz
Rise time w/50 Ω (typ)	0.9	0.9	0.9	0.9	ns
NEP <sub>SHOT</sub> @ λ <sub>PEAK</sub>	4	4	4	4	fW/Hz <sup>1/2</sup>
Linearity (± 0.2 dB)	10	10	10	10	dBm
Ceramic Carrier					

## Maximum Ratings

	GAP80LA-4	GAP80LA-8	GAP80LA-12	GAP80LA-16	Units
Storage Temperature	-40 to 125	-40 to 125	-40 to 125	-40 to 125	°C
Operating Temperature	-40 to 85	-40 to 85	-40 to 85	-40 to 85	°C
Reverse Voltage	20	20	20	20	V
Reverse Current	10	10	10	10	mA
Forward Current	10	10	10	10	mA
Power Dissipation	50	50	50	50	mW

## GPD Optoelectronics Corp.

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