



# Optical Transmission Components

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## 10 Gb/s Receivers



- Compact 9-pin or 17-pin coplanar MSA package
- High sensitivity and excellent overload performance
- High transimpedance gain
- Threshold control function
- Maximum output voltage switching: 180 mVpp (single ended), 360 mV (differential)
- Response wavelength: 1270 to 1620 nm
- Operating case temperature: -5°C to 75°C
- Single 3.3 V supply voltage

### 10 Gb/s High-Gain, High-Sensitivity Receivers

High Transimpedance Gain : 4.5 k $\Omega$  (Single Ended), 9 k $\Omega$  (Differential)

Maximum Output Voltage Switching: 180 mVpp (Single Ended), 360 mV (Differential)

Part No.	Type	Responsivity (A/W), Typ.	Transimpedance Zt (k $\Omega$ ), Typ.	-3 dB Bandwidth (GHz), Typ.	Minimum Sensitivity (dBm)	Overload Pmax (dBm), Max.	Package
ERP1404GW	PIN	1	4.5	9	-20.5	0	9 pin
ERP1404GT	PIN	1	4.5	9	-20.5	0	17 pin
ERA1404GW	APD	0.9	4.5	8	-28	0	9 pin
ERA1404GT	APD	0.9	4.5	8	-28	0	17 pin
ERA1404PW	APD	0.9	4.5	7	-28	0	XMD FPC

### 10 Gb/s Linear Receivers

Transimpedance Gain: 0.9 k $\Omega$  (Single Ended), 1.8 k $\Omega$  (Differential)

Maximum Output Voltage Swing: 550 mVpp (Single Ended), 1100 mV (Differential) | PIN

Part No.	Type	Responsivity (A/W), Typ.	Transimpedance Zt (k $\Omega$ ), Typ.	-3 dB Bandwidth (GHz), Typ.	Minimum Sensitivity (dBm)	Overload Pmax (dBm), Max.	Package
ERP1402GW	PIN	1	0.9	9	-20	0	9-pin
ERP1402GT	PIN	1	0.9	9	-20	0	17-pin
ERA1402GW	APD	0.9	0.9	8	-27.5	0	9-pin
ERA1402GT	APD	0.9	0.9	8	-27.5	0	17-pin

### 10 Gb/s Linear AGC Receivers

Maximum Output Voltage Swing: 550 mVpp (Single Ended), 1100 mV (Differential)

Part No.	Type	Responsivity (A/W), Typ.	Transimpedance Zt (k $\Omega$ ), Typ.	-3 dB Bandwidth (GHz), Typ.	Minimum Sensitivity (dBm)	Overload Pmax (dBm), Max.	Package
ERP1405GW		1	6	8.5	-19	3	9-pin
ERP1405GT		1	6	8.5	-19	3	17-pin
ERA1405GW	APD	0.9	6	7	-28	0	9-pin
ERA1405GT	APD	0.9	6	7	-28	0	17-pin
ERA1405PW	APD	0.9	6	7	-28	0	8-pin

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