

Optical-to-Electrical Converters

P6700 Series

CHARACTERISTICS



P6701B, P6703B, P6723

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	P6701B	P6703B	P6723	P6711	P6713
Wavelength Response	500 to 950 nm	1100 to 1700 nm	1310/1550 nm	500 to 950 nm	1100 to 1700 nm
Bandwidth* ¹ (Typical)	DC to 1.0 GHz	DC to 1.2 GHz	20 to 650 Mb/s	DC to 250 MHz	DC to 300 MHz
Rise Time (Typical)	(1.1 GHz) ≤500 ps	(1.4 GHz) ≤395 ps (≤340 ps)	≤455 ps	≤2 ns	≤1.6 ns
Conversion Gain	1 V/mW	1 V/mW	1.0 VP-P	5 V/mW	5 V/mW
Max. Input Optical Power	1 mW (0 dBm) ^{*2}	1 mW (0 dBm) ^{*2}	0.2 mW (-7 dBm) ^{*2}	0.2 mW (-7 dBm) ^{*2}	0.2 mW (-7 dBm) ^{*2}
	10 mW (10 dBm) ^{*3}	10 mW (10 dBm) ^{*3}		10 mW (10 dBm) ^{*3}	10 mW (10 dBm) ^{*3}
	20 mW (13 dBm) ^{*4}	20 mW (13 dBm) ^{*4}		20 mW (13 dBm) ^{*4}	20 mW (13 dBm) ^{*4}
Max. Output Modulation Depth for Reference Receiver Performance	≤200mV _{p-p}	≤200mV _{p-p}			
Noise Equivalent Power	≤0.75 μW (RMS) ^{*5}	≤0.35 μW (RMS) ^{*5}	N/A	≤250 nW (RMS)	≤200 nW (RMS)
	≤24 pW per squareroot Hz	≤11 pW per squareroot Hz			
Max. Input Fiber Core Diameter	62.5 μm	62.5 μm	62.5 μm	200 μm	100 μm

*¹Optical bandwidth (-6 dB electrical).

*²Maximum average operating power.

*³Max average nondestruct.

*⁴Max peak nondestruct.

*⁵1 GHz low pass filter in series with output.

P6711, P6713



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