



## DQPSK Demodulator Standard Product Datasheet<sup>1</sup>

Parameter	Unit	Specification
Wavelength Range (C-Band)	nm	1527 to 1567
Wavelength Range (L-Band)	nm	1567 to 1607
Free Spectral Range <sup>1</sup> (FSR, ~1/2 of the nominal data rate, only typical values are listed)	GHz	10.7, 21.5, 28 or 32.5
FSR Error <sup>2</sup>	%	< 1
Insertion Loss <sup>2</sup> (including all connectors)	dB	5.7 Typical; 6.0 Max
Extinction Ratio <sup>2</sup>	dB	> 18
PMD <sup>2</sup>	ps	< 0.1
Return Loss	dB	> 40
PDL <sup>2</sup>	dB	< 0.2
PDFS <sup>2</sup>	deg	< 3
Optical Path Delay <sup>2</sup> (Skew, among Input → I <sub>1</sub> , I <sub>2</sub> , Q <sub>1</sub> , Q <sub>2</sub> )	ps	< 1.0
Tuning Time Constant <sup>3</sup>	sec	< 1.0
Tuning Range	FSR	> 1.5
Power Consumption (total for I- & Q-arm)	W	1.0 Typical; 2.0 Max
Tuning Voltage (for each of I- & Q-arm)	V	0 ~ 5
Maximum Input Optical Power	mW	300
Operating Temperature	°C	-5 ~ 65
Storage Temperature	°C	-40 ~ 85
Dimension (L×W×H) <sup>4</sup>	mm	50×41×11
Fiber Pigtail Type	-	SMF-28 with 900 μm loose tube
Connector Type	-	TBD
Fiber Pigtail Length	m	1.0±0.1

### Notes:

1. Values listed are typical examples, customer can specify.
2. Over the stated spectral and operating temperature ranges and all polarization states.
3. Defined as the time required to reach half-way from the starting and ending points.
4. Not including five collimator sleeves extending from one longer side by 21 mm.

**Optoplex Corporation**, located in Fremont, California, is an ISO9001:2000 certified supplier of cutting-edge photonic components and modules for dynamic wavelength management and signal conditioning. The company designs, develops, manufactures, and markets innovative fiber-optic products to communications networks, and provides customized solutions to instrument, defense, spectroscopy and sensing industries. By combining its proprietary optical design and packaging technology with its state-of-the-art optical coating expertise and facility, Optoplex supplies DPSK demodulators, DQPSK demodulators, 90° optical hybrids, 2-port tunable optical filters, 3-port reconfigurable optical add/drop multiplexers (ROADMs), optical interleavers, flat-top comb filters, optical performance monitors (OPMs), and portable spectrometers.



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