

Multimode Components

Key Features

20, 40, 50, 70 GHz and Custom Rates

Fits Inside 300 pin MSA Package

Near Zero PDL and Insertion Loss

C + L Band Operation

Very Low Power Consumption

Applications

Telecom Demodulation

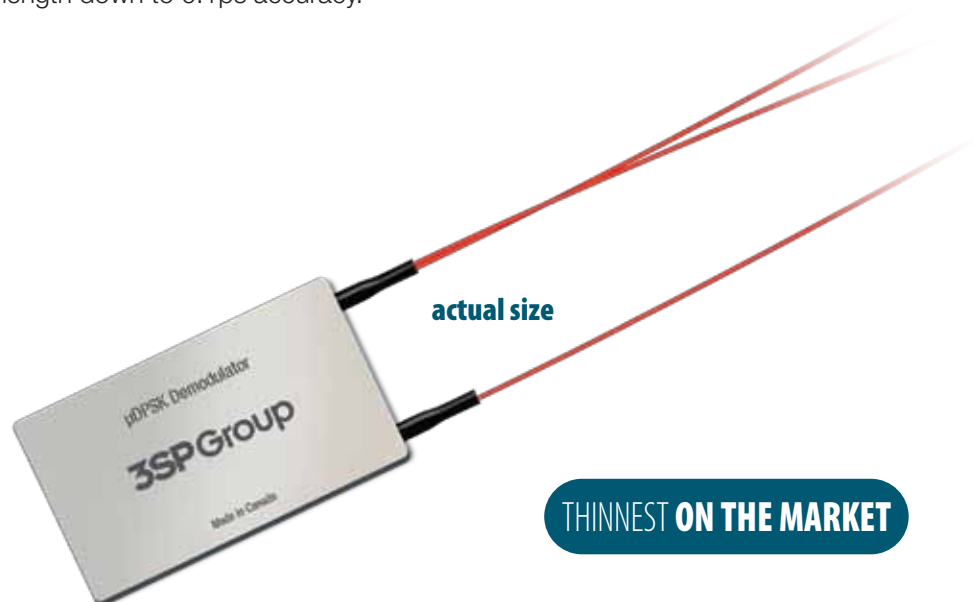
μ DPSK Demodulator

3SPGroup' micro-DPSK (μ DPSK) Demodulator is an All-Fiber delay line interferometer constructed from two continuous lengths of Corning SMF28 fiber fused to form wavelength insensitive 3dB couplers.

This results in unparalleled insertion loss, fringe contrast, port imbalance and polarization-dependency performance.

Phase tuning is achieved using a heater directly deposited on the optical fiber, providing minimal power consumption and fast rise times.

This device is offered in an ultra compact, stable and reliable package perfect to be integrated inside an MSA package. It is also fully compliant with RoHS requirements. Free from resonance below 2 kHz, the device can operate in the presence of ambient vibration. Connectorization is available as an option, with matched pigtail length down to 0.1ps accuracy.



THINNEST ON THE MARKET

For more info

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Mulimode Components



μDPSK Demodulator

SPECIFICATIONS* STANDARD CONFIGURATIONS

Free Spectral Range	20 GHz	40 GHz	50 GHz	70 GHz
Isolation	28 dB			
Optical Return Loss	> 50 dB			
PDF (1)	0.2 GHz	0.4 GHz	0.5 GHz	0.7 GHz
Operating Wavelengths	1530 - 1610 nm			
Peak Insertion Loss (2)	0.7 dB			
Differential Delay between Pigtailed (3)	< 0.25 ps			
Heater Resistance	325 Ω			
Tuning Rise Time (4)	150 ms			
Tuning Fall Time (4)	150 ms			
Typical Power Consumption	150 mW			
Operating Case Temperature	-5 to 70° C			
Size	49 x 29 x 4.3 mm (L x W x H)			

(1) Δf between polarization eigenstates – more details available upon request

(2) Does not include contribution from connectors

(3) Delay difference between ports 1 & 2; applies to connectorized units only. Offered either unterminated or with connectors

(4) Time to reach half way point

*Specifications subject to change without notice.

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Please note: information in this document is typical and must be specifically confirmed in writing by your supplier before it becomes applicable to any order or contract. Information is subject to change without notice.

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ORDERING INFO

Please contact your Sales Manager. 3SPGroup can also develop custom products to meet a wide range of technical requirements.

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