

ERBIUM AMPLIFIER COMPONENTS

WDM/DETECTOR

DiCon's WDM/Detector is a hybrid component that integrates a WDM with a high sensitivity PIN photodiode for power monitoring applications. Hybrid WDM/Detectors minimize integration costs and module size by combining two functions in one package.



FEATURES

- Ultra flat, broadband spectral response
- Integrates WDM and power monitoring functions
- Available as single component or array module
- Low insertion loss

APPLICATIONS

WDM/Detectors are designed for power monitoring in WDM systems. WDM/Detectors eliminate the need for splicing together separate WDMs and pigtailed photodiodes.



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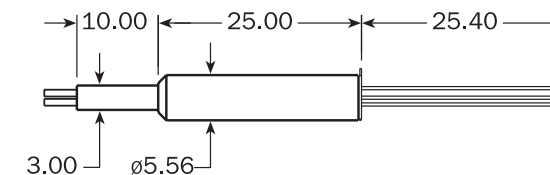
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SPECIFICATIONS¹

Insertion loss signal port	0.7 dB max.
Isolation signal port	10 dB min.
Back-reflection	-45 dB max.
PDL	0.1 dB max.
PMD	0.1 ps max.
Responsivity	0.9 A/W min., 1.05 A/W max.
Photodiode dark current ²	1 nA max. at T = 23°C
	15 nA max. at T = 70°C
Optical power ²	0.5 mW max.
Photodiode shunt resistance	10 Mohms min.
Photodiode capacitance	8 pF max.
Fiber type	9/125 Corning SMF-28
Operating temperature	-5°C to +70°C
Storage temperature	-40°C to +85°C
Soldering temperature	+350°C
Soldering time	3 sec.

1. All specifications referenced without connectors.
2. Detector at 5V reverse bias.

HOUSING DIMENSIONS¹



Units: mm
1. Optional 13 mm PIN length by request.

ORDERING INFORMATION¹

WD	-	-	-	-	-	-	-
Drop Band ¹	xxx.x/xxx.x	Specify value ²					
Lower Reflection Band ³	xxx.x/xxx.x	Specify value ²					
		put "N" if not applicable					
Upper Reflection Band ³	xxx.x/xxx.x	Specify value ²					
		put "N" if not applicable					
Drop Isolation ¹	20	20 dB					
	25	25 dB					
	30	30 dB					
	X	Specify					
Connector Type	FC	FC/SPC					
	FC/APC	FC/APC					
	FC/UPC	FC/UPC					
	SC	SC/SPC					
	SC/APC	SC/APC					
	SC/UPC	SC/UPC					
	ST	ST/SPC					
	ST/UPC	ST/UPC					
	LC	LC/SPC					
	LC/UPC	LC/UPC					
	MU/UPC	MU/UPC					
	N	None					
Fiber Jacket	2	250 micron, 200 kpsi bare fiber					
	9	900 micron, tight buffer					
Pigtail Length	1	1 meter					
	X	Specify X meters					

1. Input to detector.
2. Value between 1260.00 nm - 1660.00 nm
3. Input to signal port.

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