PURE PHOTONICS

Series SR100
Inline Optical Tap Monitor

NeoPhotonics

NeoPhotonics' EigenLight Series SR100 Fiber Optic Tap Power Monitors are used for in-line measurement of power in optical fiber. A miniature, hermetic package houses a stable optical tap and PIN photodiode.

The patented process maintains fiber continuity, avoiding lenses or partial reflectors. This provides exceptional performance and reliability for the most demanding power measurement applications.

		SR10-	SR12-	SR14-	SR16-
Wavelength Range	nm	SMF A: 1510 - 1610nm SMF B: 1280 - 1580 nm PMF: 1540- 1610mm			
Insertion Loss (version A / PMF) (version B, SMF only)	dB	< 0.4 <0.45	< 0.2 <0.25	< 0.1 <0.15	< 0.05 <0.1
Responsivity [1] (version A / PMF)	mA/W	35 - 60	15 - 35	5 - 15	1 - 5
(version B, SMF only)	mA/W	25 - 50	10 - 25	4 - 10	0.5 - 4
Polarization Stability (SMF) [3]	dB		< 0.2 (A) <0.3 (B)		< 0.25 (A) < 0.3 (B)
Extinction Ratio (PMF)	dB	> 21			
Optical Return Loss	dB	> 70			
Polarization Dependent Loss (SMF)	dB	< 0.01			
Directivity [3]	dB	> 30	> 20	>15	> 10
Max Optical Power	dBm	16	18	22	26
Dark Current @ -5V, 23C	nA	< 1			
3dB Bandwidth @ -5V	MHz	> 200			
Capacitance	pF	< 10			
Max Forward Current	mA	10			
Max Reverse Current	mA	5			
Max Reverse Voltage	V	10			
Operating Temperature	C	-5 - 75			
Storage Temperature	C	-40 - 85			

1) Ratio of Photo-Current to Optical Power in Fiber
2) change in responsivity with polarization
3) sensitivity to forward directed light relative to backward directed light

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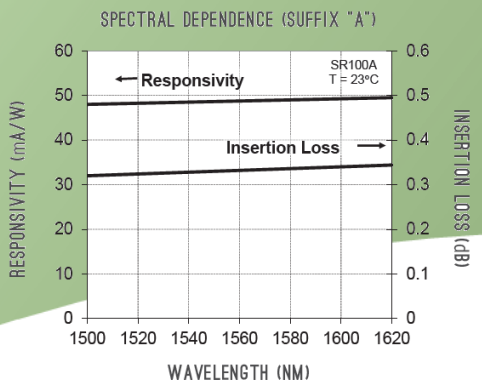
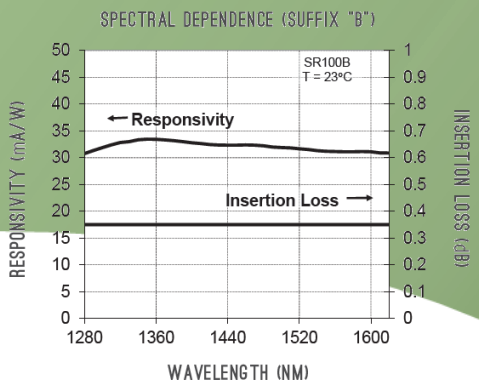
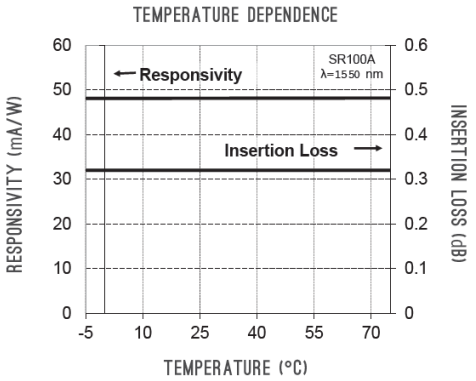
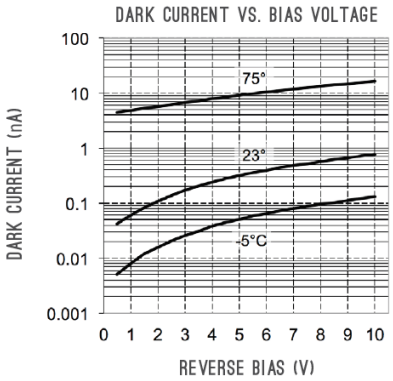




Technical data





Partnumber

SR 1 [ ][ ][ ] - 1 - [ ] - [ ]

Responsivity

0	Code 0
2	Code 2
4	Code 4
6	Code 6

Fiber Type

0	250um bare fiber (SMF)
1	900um loose tubing (SMF)
2	250um bare fiber (PMF)
3	900um loose tubing (PMF)

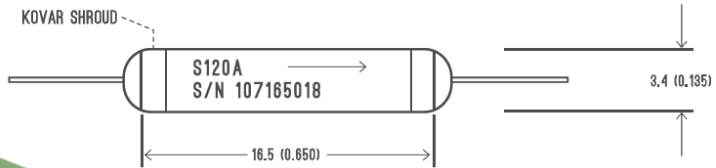
Wavelenght Range

A	Standard (1510-1610nm) (SI
B	Broadband (1280-1580nm) (
None	(PMF)

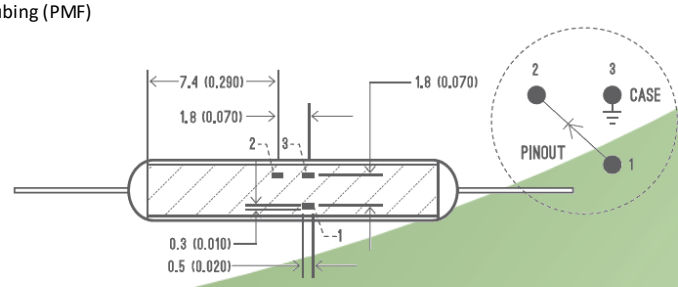
Connector Type

10	FC/PC
15	FC/APC
30	SC
35	SC/APC
40	LC
45	LC/APC
90	No Connector

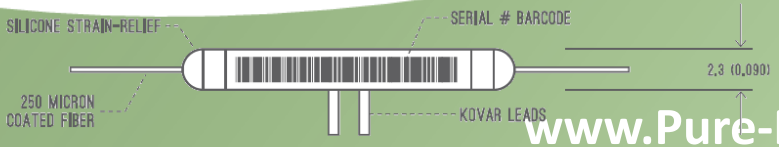
Mechanical



Top-view



Bottom-view



Side-view

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