

SFM-V85-01x02

Multimode Splitter, VCSEL optimized

Description:

The SFM-V85 are multimode splitters optimized for operation with VCSEL 850 nm laser sources, featuring low backreflection, low insertion loss, and high port isolation over wide ranges of temperature. The SFM-V85 splitters are designed to divide and/or combine different optical signals in optical fiber systems. With its innovative Fused Technology process, series SFM splitters have proven to provide exceptional characteristics for all applications demanding critical performance. Various splitting ratio can meet the customer specifications. Available in a wide variety of packaging configurations, these SFM series are operable in 850 nm wavelength range. Various types of pigtailling and connector terminations are available to meet your requirements.

Features:

- Low insertion loss
- High port isolation
- Custom defined specifications
- Environmentally stable



Applications:

- Telecommunications
- Local area network
- Fiber to the home
- Video transmission
- Fiber optic sensing
- Testing instruments

Coupling Ratio vs. Insertion Loss

Coupling Ratio (%)	Insertion Loss (dB)
50 / 50	3.8 / 3.8
20 / 80	8.3 / 1.9
10 / 90	11.6 / 1.4

Performance specifications:

Parameters ¹	Multimode Splitters
Operating Wavelength, nm	850
Operating bandwidth, nm	±20 (VCSEL 850 Light Source)
Insertion Loss, dB	Refer to the Coupling ratio vs. Insertion loss chart
Uniformity, dB (50:50)	0.5
Excess loss (typ.), dB	0.8
Return Loss, dB	> 40
Operating Power, W	5
Operating Temperature ² , °C	-25 to +70
Storage Temperature ² , °C	-40 to +85

Note: 1) without connectors
2) conditioned by fiber/cable parameters

Ordering Code:

SFMX - V85 - 01 x 02 - XX - XXX - NC-NC

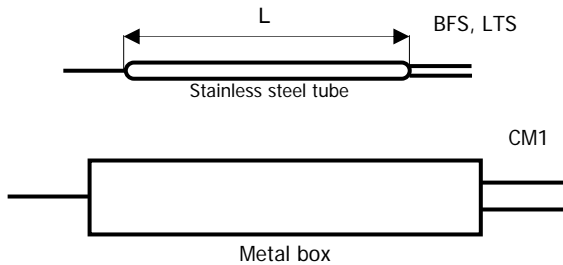
SFM5	MM 50/125
SFM6	MM 62.5/125

port
01 x 02

coupling ratio
50 50/50
20 20/80
10 10/90

no input and output connectors connector type: -can be defined following CON_14-01 (Jumper Ordering Code)
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Note: standard fiber/cable length = 1 m



package option I

BFS Bare fiber 250 µm, standard tube
(stainless steel tube Ø 3 mm, L=54 mm)
CM1 Cable 3 mm, metal box 100x15x9 mm

package option II

CAPM OPTOKON cassette
RM rack mounted unit (MCNP-1U)
WM wall mounted box (MPIC-4)
SC splice cassette