

# SFMx -S13-01xX SFMx -S85-01xX Multimode Couplers/Splitters

## **Description:**

Multimode Couplers/Splitters are ultra reliable devices featuring low backreflection, low insertion loss, and high port isolation over wide ranges of temperature and wavelength. The Multimode Couplers/Splitters are designed to divide and/or combine different optical signals in optical fiber systems. With its innovative Fused Technology process, series SFM Couplers/Splitters have proven to provide exceptional characteristics for all applications demanding critical performance. The splitting ratio can be customer specified to meet your needs. Available in a wide variety of packaging configurations, these SFM series are operable in 850 nm and 1300 nm wavelength range. Various types of pigtailing 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



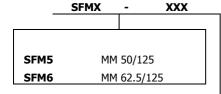
#### **Performance specifications:**

ITEM			
Operating Wavelength, nm		800 and 1300	
Port Configuration	1 x 4	1 x 8	1 x 16
Grade	Super (S)	Super (S)	Super (S)
Insertion Loss, dB	7.8	11.7	15.6
Coupling Ratio Tolerance (%)	7	7	7
Uniformity, dB (50:50)	1,4	2,8	3,6
Directivity, dB	> 40		
Operating Temperature <sup>1</sup> , °C	-25 to +70		
Storage Temperature <sup>1</sup> , °C	-40 to +85		

<sup>1)</sup> Conditioned by the cable type



## **Ordering Code:**



grade + wavelength		
(S – super	grade)	
S85	850 nm	
S13	1300 nm	

OTXI	- ^/	<u> </u>
		· ·
# port	ratio	, <sup>2</sup>
•		
01 x 04	25	01 x 04
01 X 04	23	01 X 01
01 x 08	12	01 x 08
01 x 16	06	01 x 16

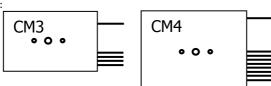
2)	other	on	req	ues
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	no input and output connectors
	connector type:
1 x 04	-can be defined according to CC
1 x 08	(Jumper Ordering Code)
1 x 16	Note: standard fiber/cable lengtl

packaging	port	configuration

CM3, FM3 01X04 CM4, FM4 01X08 CM5 01x16 **CAPM** 01X04, 01X06 **SC, RM, WM** up to 01x16

CM, FM packaging option:





SFM6-S85-01x08-12-CM4-SC

ording to CON\_14-01 ode) cable length = 1 m

package option I

NC-NC

FM3 Fiber type, metal box 100x80x10 mm СМЗ Cable type, metal box 100x80x10 mm FM4 Fiber type, metal box 140x110x10 mm CM4 Cable type, metal box 140x110x10 mm CM5 Cable type, metal box 140x110x20 mm

package option II

CAPM

SC Splice cassette (TC251S-1X) RM Rack mounted unit (MCNP-1U)<sup>3</sup> WM Wall mounted box (MPIC-4)<sup>3</sup>

OPTOKON cassette

3) including CM3 – CM5 box or splice cassette