



Mini Single Mode Broadband Coupler (MSBC series)

The MSBC Single Mode Broadband Couplers are based on BTF technology. They offer very low insertion loss, very low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available in a wide wavelength range. These components find extensive application to perform power splitting and monitoring functions in all kinds of optical communication systems.



Specifications

Parameter	Unit	Values					
Grade		P					
Operating Wavelength	nm	1550					
Bandwidth	nm	+/-40					
Coupling Ratio	%	1/99	2/98	3/97	5/95	10/90	50/50
Max. Insertion Loss	dB	0.2/21.5	0.25/19	0.3/17	0.4/14.6	0.6/10.8	3.6/3.6
Max. PDL	dB	0.20	0.18	0.15	0.12	0.12	0.1
Thermal Stability	dB/	0.002dB/ over -5 °C to +70 °C					
Directivity	1X2	55 dB					
	2X2	65 dB					
Fiber length		1 meter, others on request					
Fiber type		Corning SMF-28					
Package Dimensions (Tap coupler)		250um bare fiber and dia. 3.0 mm X 30 mm 900um loose tube and dia. 3.0mm X 37mm					
Package Dimensions (50/50 coupler)		250um bare fiber and dia. 3.0 mm X 35 mm 900um loose tube and dia. 3.0mm X 42mm					
Operating Temperature		-5 °C to +70 °C					

*The above specification is for coupler without connector

*For devices with connectors, insertion loss will be 0.3dB higher, RL will be 5dB lower.

Ordering information

MSBC- - - - - -

:Port
1 - 1X2
2 - 2X2

: Grade
P - P grade
S - Specify

:Fiber type
B - 250 um bare fiber
L - 900 um loose tube

: Wavelength
55 - 1550
SS - Specify

:Connector Type
1 - FC/UPC
2 - ST/UPC
3 - LC/UPC
4 - FC/APC
5 - SC/APC
6 - SC/UPC
N - None
S - Specify

:Fiber Length
1 - 1m
S - Specify

: Coupling Ratio
01-1/99
02-2/98
03-3/97
05-5/95
10-10/90
50-50/50
SS-Specify

: Fiber Option
F - Corning SMF-28
S - Specify