1550nm RC80 1x2 2x2 SM Fiber Fused Coupler

1550nm RC80 1x2, 2x2 SM Fused Coupler is built with fused biconical taper (FBT) technology, optical signal power can be splitted into two parts with even or various coupling ratio by the FBT Coupler, it's widely applied in fiber optic transmission and fiber optic sensor field, the Higher Power type is available upon request.

Application:

Optical Signal Transmission
Fiber Optic Sensor
Fiber Amplifier
Optical Diffraction System

Features:

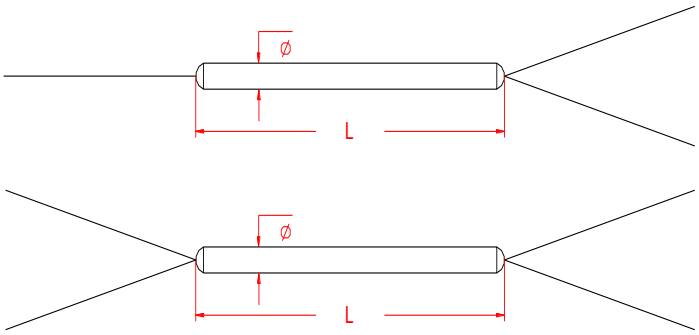
Low Excess Loss
High Return Loss
Low Insertion Loss
High Reliability

Specification:

Parameter		Symbol	Value	Unit
Center Wavelength		λ	1550	nm
Bandwidth		BW	±15	nm
Max. Excess Loss		EL	0.3	dB
Max. Insertion Loss	50/50	IL	3.5/3.5	dB
	40/60		4.5/2.7	dB
	30/70		5.8/2.0	dB
	20/80		7.7/1.25	dB
	10/90		11.25/0.7	dB
	5/95		14.5/0.45	dB
	3/97		16.15/0.3	dB
	2/98		18.5/0.3	dB
	1/99		21.5/0.25	dB
Max. Polarization Dependent Loss		PDL	0.1	dB
Min. Directivity			50	dB
Min. Return Loss		RL	50	dB
Fiber Type			Corning RC 80 SMF Fiber	-
Max. Tensil Load			5	N
Max. Optical Power (CW)		P	2	W
Operating Temperature		T	-40~75	℃
Storage Temperature		T	-40~85	℃
Package Dimension			Φ3.0xL35	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23℃.

Drawing:



Ordering Information (Part Number):

RSMFUC-WWWW-PP-RR-J-LL-CC

WWWW	PP	RR	J	LL	CC
Wavelength	**Port**	**Coupling Ratio**	**Fiber Jacket**	**Fiber Length**	**Connector**
1310 - 1310nm 1550 - 1550nm 1315 - 1310&1550nm Dual Window	12 - 1x2 22 - 2x2	01 - 1/99 02 - 2/98 03 - 3/97 05 - 5/95 10 - 10/90 20 - 20/80 30 - 30/70 40 - 40/60 50 - 50/50 SS - Specify	B - 165um Bare Fiber	05 - 0.5m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	NE - None