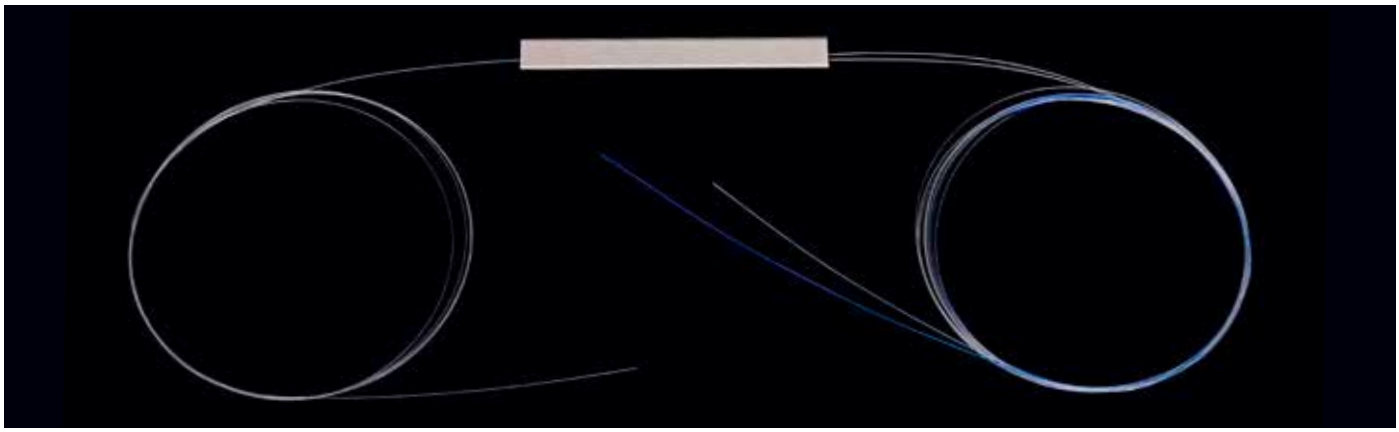
CHANNELL

DATA SHEET

FUSED BICONIC COUPLERS

Single Mode Fiber Coupler 1x2



PARAMETERS	VALUES	UNIT
Type	*1x2*	
Coupling Ratio	*50/50*	
Insertion loss Max.[1,2]	*See below Table*	
Uniformity Max.	*See below Table*	
Return loss Min.	*55*	*dB*
Directivity Min.	*55*	*dB*
PDL Max.	*See below Table*	
WDL Max.[3]	*See below Table*	
TDL at -5~70c Max.	*0.15*	*dB*
Housing dimension	*Fiber 3.0 (Φ) x 54 (L)* *60(L) x 7(W) x4(H)*	*mm*
Fiber Type	SMF-28e 250μm bare fiber	
Operating temperature	*-40 ~ +85*	*°C*
Storage temperature	*-40 ~+85*	*°C*

DESCRIPTION	IL (dB) TYP. / MAX.	PDL (dB) MAX.	UNIFORMITY (dB) MAX.	WDL(dB) MAX.
Single Wavelength Band (1310±40 or 1550 ±40 nm)	*3.2 / 3.4*	*0.15*	*0.3*	*0.2*

FEATURES

- **High Reliability**
- **Robust Performance**
- **Compact Package**
- **RoHS Compliant**

APPLICATIONS

- **Telecommunications**
- **Network Monitoring**
- **FTTX**

Note:

1. The performance values do not include connectors..IL are worst case including PDL, TDL, and WDL.
2. WDL means IL change over Single wavelength band. Only for each window band, not including water peak band.

Channell's Single Mode Fiber Couplers are highly stable for multi-port optical signal splittingwith low insertion loss. All devices are qualified according to industry standard test procedures .

Single Mode Fiber Coupler 1x2 (All coupling Ratio)

PART #	DESCRIPTION	Max IL Drop	Max IL Tap	Coupling Ratio
SPLT0003N	Splitter Tap, 1x2 coupler only, 3:97 coupling ratio, 250um leads, 1M pigtail	15.50	0.14	3:97
SPLT0006N	Splitter Tap, 1x2 coupler only, 6:94 coupling ratio, 250um leads, 1M pigtail	12.50	0.28	6:94
SPLT0007N	Splitter Tap, 1x2 coupler only, 7:93 coupling ratio, 250um leads, 1M pigtail	12.00	0.35	7:93
SPLT0010N	Splitter Tap, 1x2 coupler only, 10:90 coupling ratio, 250um leads, 1M pigtail	10.50	0.48	10:90
SPLT0014N	Splitter Tap, 1x2 coupler only, 14:86 coupling ratio, 250um leads, 1M pigtail	9.00	0.68	14:86
SPLT0015N	Splitter Tap, 1x2 coupler only, 15:85 coupling ratio, 250um leads, 1M pigtail	8.60	0.75	15:85
SPLT0020N	Splitter Tap, 1x2 coupler only, 20:80 coupling ratio, 250um leads, 1M pigtail	7.50	1.00	20:80
SPLT0029N	Splitter Tap, 1x2 coupler only, 29:71 coupling ratio, 250um leads, 1M pigtail	5.55	1.65	29:71
SPLT0030N	Splitter Tap, 1x2 coupler only, 30:70 coupling ratio, 250um leads, 1M pigtail	5.50	1.70	30:70
SPLT0039N	Splitter Tap, 1x2 coupler only, 39:61 coupling ratio, 250um leads, 1M pigtail	4.35	2.25	39:61
SPLT0040N	Splitter Tap, 1x2 coupler only, 40:60 coupling ratio, 250um leads, 1M pigtail	4.30	2.50	40:60
SPLT0044N	Splitter Tap, 1x2 coupler only, 44:56 coupling ratio, 250um leads, 1M pigtail	3.80	2.80	44:56
SPLT0045N	Splitter Tap, 1x2 coupler only, 45:55 coupling ratio, 250um leads, 1M pigtail	3.85	2.90	45:55
SPLT0046N	Splitter Tap, 1x2 coupler only, 46:54 coupling ratio, 250um leads, 1M pigtail	3.50	3.00	46:54
SPLT0054N	Splitter Tap, 1x2 coupler only, 54:46 coupling ratio, 250um leads, 1M pigtail	3.00	3.50	54:46
SPLT0056N	Splitter Tap, 1x2 coupler only, 56:44 coupling ratio, 250um leads, 1M pigtail	2.80	3.80	56:44
SPLT0060N	Splitter Tap, 1x2 coupler only, 60:40 coupling ratio, 250um leads, 1M pigtail	2.50	4.30	60:40
SPLT0069N	Splitter Tap, 1x2 coupler only, 69:31 coupling ratio, 250um leads, 1M pigtail	1.90	5.30	69:31
SPLT0071N	Splitter Tap, 1x2 coupler only, 71:29 coupling ratio, 250um leads, 1M pigtail	1.65	5.55	71:29
SPLT0072N	Splitter Tap, 1x2 coupler only, 72:28 coupling ratio, 250um leads, 1M pigtail	1.70	5.80	72:28

PART NUMBER MATRIX

SPLT 00 XX X

Splitter Tap

Port Count

00 Fused Bionic Coupler Only

Coupling Ratio

03 3:97	10 10:90	20 20.80	39 39:61	55 55:45	71 71:29
06 6:94	14 14:86	29 29:71	40 40:60	56 56:44	72 72:28
07 7:93	15 15:85	30 30:70	54 54:46	69 69:31	

Connectorized Output

N 250um Bare Fiber

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