

MULTIMODE 1X2 THIN FILM OPTICAL COUPLER

DiCon's Multimode 1x2 Thin Film Optical Coupler utilizes a thin film filter to tap off light from an optical signal. Thin film optical filters have the advantage in multimode fiber applications because they have a stable tap ratio not subject to changes in mode distribution, unlike fused fiber optic couplers.



FEATURES

- Stable Tap Ratio
- Ideal for Multimode Fiber Applications
- Test to Telcordia GR-1221

APPLICATIONS

DiCon's Multimode Thin Film Optical Coupler is for applications where it is desired to split an optical signal into two paths.



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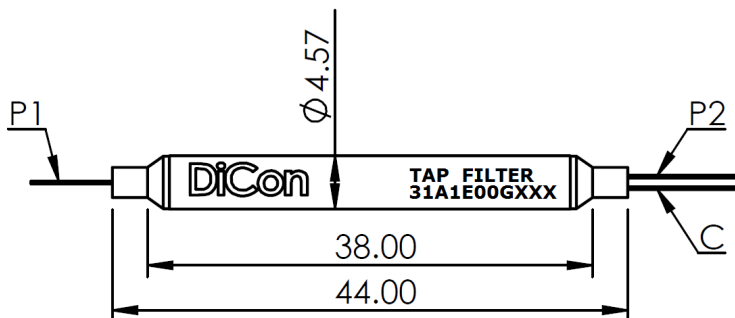
SPECIFICATIONS¹

PARAMETER		RATING
Coupler Type		Thin Film
Tap Configuration		1x2
Insertion Loss, 5% Tap Ratio ²	C to P1	0.8 dB max.
	C to P2	18 dB max.
Insertion Loss, 10% Tap Ratio ²	C to P1	1.0 dB max.
	C to P2	12 dB max.
Insertion Loss, 25% Tap Ratio ²	C to P1	1.8 dB max.
	C to P2	7.2 dB max.
Insertion Loss, 40% Tap Ratio ²	C to P1	2.8 dB max.
	C to P2	5 dB max.
Insertion Loss, 50% Tap Ratio ^{2,3}	C to P1	3.6 dB max.
	C to P2	3.6 dB max.
Back Reflection	50 μ m	-25 dB max.
	62.5 μ m	-20 dB max.
Optical Power ⁴		300 mW max.
Operating Temperature		0 to 50 °C
Storage Temperature		-20 to 70 °C
Fiber Type		Multimode

- All specifications at room temperature, without connectors
- Tap ratio is a nominal value of output power divided by input power. Actual insertion loss is specified by the insertion loss specification.
- Dual band 850 nm & 1310 nm adds 0.20 dB
- High power version available. Contact DiCon for details.

MECHANICAL DIMENSIONS

(Units: mm)



ORDERING INFORMATION

MFWT - - - - - -

Tap Ratio

5	95/5%
10	90/10%
25	75/25%
40	60/40%
50	50/50%

Wavelength

8	850 nm
9	980 nm
8/13	850 and 1310 nm
13	1310 nm

Fiber Type

50/OM3	50/125 μ m OM3 multimode fiber
62	62.5/125 μ m multimode fiber

Jacket Type

BF	250 μ m, Bare fiber
9TB	900 μ m, Tight buffer

Connector Type

FC	FC/PC
SC	SC/PC
ST	ST/PC
LC	LC/PC
N	None

Pigtial Length

1	1 Meter
X	Specify X meters