

# 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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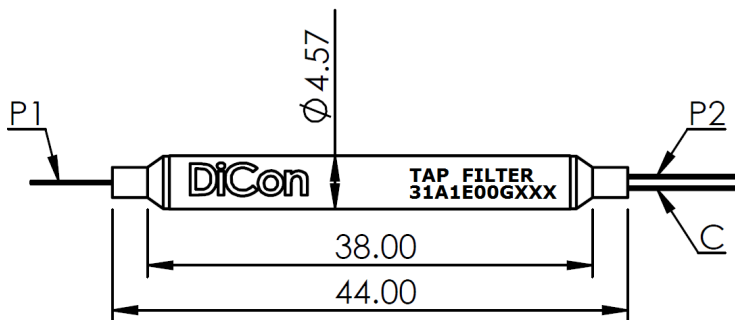
## SPECIFICATIONS<sup>1</sup>

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

1. All specifications at room temperature, without connectors
2. Tap ratio is a nominal value of output power divided by input power. Actual insertion loss is specified by the insertion loss specification.
3. 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 $\mu$ m OM3 multimode fiber
62	62.5/125 $\mu$ m multimode fiber

### Jacket Type

BF	250 $\mu$ m, Bare fiber
9TB	900 $\mu$ 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