

MULTIMODE 1X2 THIN FILM OPTICAL COUPLER BOX

DiCon's Multimode 1x2 Thin Film Optical Coupler Box 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
- Compact, Convenient Housing

APPLICATIONS

DiCon's Multimode Thin Film Optical Coupler Boxes are ideal in test & measurement applications, where it is desired to split an optical signal into two paths.



MULTIMODE 1X2 THIN FILM OPTICAL COUPLER BOX

SPECIFICATIONS¹

PARAMETER	RATING	
Coupler Type	Thin Film	
Tap Configuration	1x2	
Insertion Loss, 10% Tap	IN to OUT 1	1.0 dB max.
	IN to OUT 2	12 dB max.
Insertion Loss, 25% Tap	IN to OUT 1	1.8 dB max.
	IN to OUT 2	7.2 dB max.
Insertion Loss, 40% Tap	IN to OUT 1	2.8 dB max.
	IN to OUT 2	5 dB max.
Insertion Loss, 50% Tap ²	IN to OUT 1	3.6 dB max.
	IN to OUT 2	3.6 dB max.
Back Reflection	-25 dB max.	
Operating Temperature	0 to 50 °C	
Storage Temperature	-20 to 70 °C	
Fiber Type	50/125 um OM3 multimode	

1. All specifications at room temperature, without connectors
 2. Dual band 850 nm & 1310 nm adds 0.20 dB

ORDERING INFORMATION

FWTB-1x2 - / - - 50/OM3 -

Number of Couplers

1	1 Coupler
2	2 Couplers

Tap Ratio

10	10%
25	25%
40	40%
50	50%

Wavelength

8	850 nm
8/13	850 and 1310 nm
13	1310 nm

Fiber Type

50/OM3	50/125 OM3 multimode fiber
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Connector Type

FC	FC/PC
SC	SC/PC
ST	ST/PC
LC	LC/PC

MECHANICAL SPECIFICATIONS

PARAMETER	RATING
Depth	120.0 mm
Width	103.0 mm
Height	33.63 mm
Housing Material	Extruded Aluminum
Finish	Black Anodized
Connector Type	Bulkhead
Connector Location	Front of Housing