

MULTIMODE 1X4 THIN FILM OPTICAL COUPLER BOX

DiCon's Multimode 1x4 Thin Film Optical Coupler Box utilizes thin film filters to split light into four equal output channels. Thin film optical filters have the advantage in multimode fiber applications because they have a stable split ratio not subject to changes in mode distribution, unlike fused fiber optic couplers.



FEATURES

- Stable Split 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 four paths.



MULTIMODE 1X4 THIN FILM OPTICAL COUPLER BOX

SPECIFICATIONS¹

PARAMETER	RATING
Coupler Type	Thin Film
Split Configuration	1x4
Split Ratio ²	25% nominal
Insertion Loss ^{3,4}	7.2 dB max.
Back Reflection	-25 dB max.
Operating Temperature	0°C to +50°C
Storage Temperature	-20°C to +70°C

- All specifications at room temperature, without connectors
- Split ratio is a nominal value. Actual insertion loss is specified by the insertion loss specification.
- Insertion loss from input to any output port
- Dual band 850 nm & 1310 nm adds 0.40 dB

ORDERING INFORMATION

FWTB - 1x4 - 25 - □ - 50/OM3 - □

Split Configuration

1x4 1x4 split

Split Ratio

25 25% nominal

Wavelength

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

Fiber Type

50/OM3 50/125 OM3 multimode fiber

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
Connector Label, Input	Common
Connector Labels, Output	1, 2, 3, 4