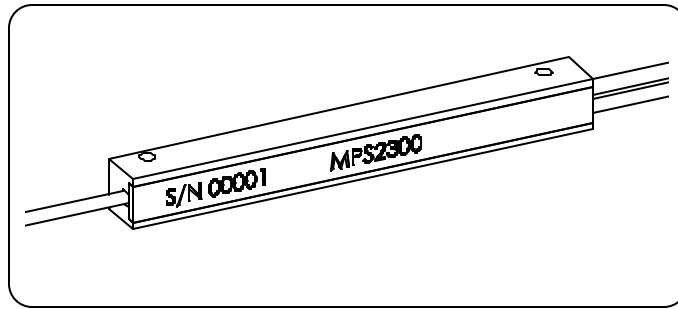


# OPTICAL SPLITTER/COMBINER



Model: MPS-2300

## Description

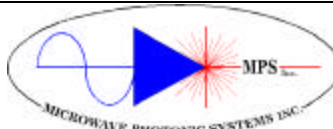
The MPS-2300 Fiber-optic broadband couplers are designed to give a constant coupling ratio over a broad wavelength region from 1270 nm to 1590 nm. The MPS 2300 is ideal for CATV, telecommunications, sensor, and instrumentation systems which presently transmit signals of multiple wavelengths on a single fiber. Various coupling ratios are available from 50/50 to 99.5/.05 typically. The units are hermetically sealed for superior environmental protection.

## Specifications

<b>Passband: (nm)</b>	<b>1270 to 1350, 1510 to 1590</b>
<b>Fiber Type:</b>	<b>Corning SMF-28</b>
<b>Thermal Stability:(dB)</b>	<b>&lt;+/- 0.1, typ.</b>
<b>Operating Temp Range:</b>	<b>-40deg C thru +75deg C</b>
<b>Polarization Stability:(dB)</b>	<b>&lt;+/- 0.1 typ.</b>
<b>Directivity:(dB)</b>	<b>&lt;-65 for 2x2 port configuration &lt;-50 for 1x2 port configuration</b>
<b>Pigtail Options:</b>	<b>2.4mm, 900um or 250um</b>
<b>Package Size:</b>	<b>(.375" x .375" x 3.5")</b>
<b>Mounting:</b>	<b>2, number 4 through holes</b>

<b>Insertion Loss (dB):</b>	<b><u>Split ratio</u></b>	<b><u>Grade A</u></b>	<b><u>Grade B</u></b>	<b><u>Grade C</u></b>
	<b>50/50</b>	<b>3.6</b>	<b>4.0</b>	<b>4.6</b>
	<b>40/60</b>	<b>4.7/2.7</b>	<b>5.0/2.9</b>	<b>5.8/3.6</b>
	<b>30/70</b>	<b>6.0/1.9</b>	<b>6.4/2.1</b>	<b>7.4/2.7</b>
	<b>20/80</b>	<b>7.9/1.2</b>	<b>8.5/1.4</b>	<b>9.8/2.0</b>
	<b>10/90</b>	<b>11.3/0.6</b>	<b>12.7/0.8</b>	<b>15.8/1.4</b>
<b>Excess Loss:(dB)</b>	<b>&lt;0.10</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	

882 S.Matlack St.  
Unit 104  
West Chester, PA 19382



phone: 610.344.7676  
fax: 610.344.7110  
email:mpss@erols.com