

Optical loss table for beam splitter



Summary of Content

Beam splitters exhibit varying optical losses depending on type, coating, and polarization, with plate, cube, and pellicle designs showing distinct performance characteristics.

Optical Loss Comparison Table

Beam Splitter Type	Typical Reflection/Transmission Loss	Absorption	Ghosting / Back Reflection	Polarization Sensitivity	Laser Damage Threshold	Notes
Plate	~50/50 split; uncoated: ~1% ghost reflection; coated: $R+T \approx 1$	Low (~1-2%)	Ghost reflections from back surface; minimized with wedge & AR coating	Moderate; s/p asymmetry at 45° AOI (s ~9.6%, p ~0.9%)	High; up to 10 J/cm ² (epoxy-free, AR coated)	Beam displacement occurs; wedge reduces ghosting; suitable for high-power lasers ()
Cube	~50/50 split; coated: $R+T \approx 1$	Very low (15 J/cm ²)	No beam displacement; best for collimated beams; high spectral uniformity ()			
Pellicle	~50/50 split; membrane thickness 2-5 μm	Very low ()				



Article Content

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Estimate optical splitter losses for fiber building projects fast. Include connectors, splices, excess loss, and margin safety. Export

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Calculate R/T power splitting, Fresnel reflectance, and plate beam displacement. Beam splitters appear in three distinct engineering

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The document contains tables listing the insertion loss in dBm for various splitting ratios of an optical splitter, ranging from 1% to

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How to Calculate Splitter Loss in Optical Fiber

Understanding the types of splitters, their impact on network performance, and how to measure their losses ensures

Beam Splitters — Abridged Guide

Quick-reference guide for beam splitters — key equations, type comparison tables, Fresnel reflectance, polarizing designs, and a

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