

## LaserLite OTCP-A-1-3-5-1xN

WIDEBAND, DUAL-WINDOW, SINGLEMODE OPTICAL COUPLERS/SPLITTERS (1x2 through 1x32)

### Features / Benefits

- Low-cost, space-saving devices for accurate & reliable optical signal splitting
- Wideband dual optical window (1310 & 1550nm  $\pm$ 40nm)
- High Performance; High Directivity; Excellent Environmental Stability
- Low Insertion Loss; Low Polarization Sensitivity; Low Back Reflection
- Available in standard splitting ratios from 1x2 through 1x32
- Available in several high-density packaging options (standalone, 1RU & 2RU)
- Applications include:
  - CATV/HFC video & high speed data distribution networks
  - FITL (Fiber in the Loop) & PON (passive optical networks)
  - LAN/WAN/Long Haul Telecommunications systems
  - Laboratory testing, back reflection measurement & sensors
  - EDFA and WDM applications

The **OLSON TECHNOLOGY, INC. Model OTCP-A-1-3-5-1xN** is a low-cost, high performance family of passive optical splitter/coupler products which provide a protective, enclosed environment for fiber splitting, as well as network testing and real-time monitoring, in CATV, HFC or PON broadband applications. The unit utilizes ultra-reliable Fused Biconic Taper (FBT) technology to enable it to meet or exceed its performance specifications over a wide temperature range and to deliver long-term reliability. Compliant with Telcordia Bellcore 1221 & 1209, OT couplers are subjected to thermal cycling and tested for insertion loss, back reflection and bandpass.



The base **Model OTCP-A-1-3-5-1xN** (where N = 2, 3, 4, 6 or 8) is a low-profile, rugged, Olson-standard *LaserLite* package. It is configured for standalone desktop, shelf or wall-mounting, or it can also be rack-mounted in the 1RU 19" EIA **Model OTLL-RMKIT-1** as a low-cost option.

For architectures and applications requiring even larger optical splitting ratios, the **Model OTCP-A-1-3-5-1xN** (where N = 12, 16 or 24) is available in a 1RU 19" rack mount package, while the **Model OTCP-A-1-3-5-1x32** is available in a 2RU 19" EIA rack mount package.



The **OTCP-A-1-3-5-1xN** is the perfect companion to the Olson Technology, Inc. *LaserLite Models OTOT-x & OTEA-x* and *LaserPlus Models LP-OT-x & LP-EA-x* optical transmitter and EDFA product families. It is also designed to mate with 1310/1550nm optical transmitters and EDFA's from most leading manufacturers.

# LaserLite OTCP-A-1-3-5-1xN

## Specifications

### COMMON PERFORMANCE PARAMETERS:

Center Wavelengths	1310 & 1550 nm
Bandpass (@ 1310/1550 nm)	±40 nm
Fiber Type	Singlemode (SMF-28)
Directivity	> 55 dB
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Thermal Stability	< 0.002 dB/°C
Dimensions (Module:1xN; N=2,3,4,6,8)	5.5" W x 1.375" H x 7.625" D
Dimensions (1RU: 1xN ; N=12,16,24)	19" W x 1.77" W x 11.02" D
Dimensions (2RU: 1x32)	19" W x 3.5" W x 11.02" D

### INDIVIDUAL PERFORMANCE PARAMETERS and ORDERING INFORMATION

Model Number	Configuration (Split Ratio)	Max Loss (dB) (Incl Connector Loss)	Max Uniformity (dB)	PDL (Polarization Dependent Loss)(dB)
OTCP-A-1-3-5-50	1x2 (Even)	3.5/3.5	0.7	0.10
OTCP-A-1-3-5-40	1x2 (40/60)	4.6/2.7	0.7	0.10
OTCP-A-1-3-5-30	1x2 (30/70)	5.9/1.9	0.7	0.10
OTCP-A-1-3-5-20	1x2 (20/80)	7.9/1.3	0.7	0.10
OTCP-A-1-3-5-10	1x2 (10/90)	11.2/0.8	0.7	0.10
OTCP-A-1-3-5-05	1x2 (5/95)	14.5/0.4	0.7	0.10
OTCP-A-1-3-5-1x3	1x3 (Even)	5.8	0.8	0.15
OTCP-A-1-3-5-1x4	1x4 (Even)	7.0	1.4	0.30
OTCP-A-1-3-5-1x6	1x6 (Even)	9.0	1.5	0.40
OTCP-A-1-3-5-1x8	1x8 (Even)	10.6	2.1	0.45
OTCP-A-1-3-5-1x12	1x12 (Even)	12.5	2.5	0.50
OTCP-A-1-3-5-1x16	1x16 (Even)	14.0	2.8	0.60
OTCP-A-1-3-5-1x24	1x24 (Even)	16.1	3.1	0.70
OTCP-A-1-3-5-1x32	1x32 (Even)	17.6	3.5	0.75

### ACCESSORIES:

**OTLL-RMKIT-1** 1RU 19" EIA RACK MOUNT KIT for up to (3) OTCP-x, OTOT-x and/or OTOR-300