Optical Coupler Modules

The optical coupler module offers management of optical power and wavelength, packaged in the LGX® design. Each module is comprised of Telcordia®-compliant PLC or concatenated fused biconic components. Once assembled and terminated, the module is fully tested for environmental, mechanical, and optical integrity.

Features

- Telcordia GR-1209 & GR-1221 compliant
- Telcordia GR-326 compliant connectors and adapters
- Telcordia GR-20 compliant singlemode optical fiber
- RoHS compliant
- Packaged individually / tamper-proof seal

Applications

- CATV
- Telco
- Wide Area Networks
- Fiber Monitoring Systems
- Military systems

Specifications

PARAMETER	VALUE	
	Single-mode	
	Ultra	Angled
Return Loss (Minimum dB)	> -45	> -50
Directivity	> -55	
Operating Temperature/ Relative Humidity	-40 to +85°C / 90%	
Storage Temperature/ Relative Humidity	-40 to +85°C / 90%	

Ordering Information

			OPTICAL BANDPASS	OUTPUT PORT COUPLING RATIO (PORT)		INSERTION LOSS (IL) PORT 01		INSERTION LOSS (IL) PORT 02	
I/O PORTS	I/O CONN	AFL NO.		01	02	TYP	MAX	TYP	MAX
1 x 2	USC	CM000165	1310 ± 40 nm / 1550 ± 40 nm	50	50	3.3	4.0	3.3	4.0
1 x 2	USC	CM000166	1310 ± 40 nm / 1550 ± 40 nm	40	60	4.3	5.2	2.5	3.3
1 x 2	USC	CM000167	1310 ± 40 nm / 1550 ± 40 nm	30	70	5.5	6.4	1.5	2.4
1 x 2	USC	CM000168	1310 ± 40 nm / 1550 ± 40 nm	20	80	7.3	8.3	1.3	1.8
1 x 2	USC	CM000169	1310 ± 40 nm / 1550 ± 40 nm	10	90	10.3	11.5	0.8	1.1
1 x 2	USC	CM000170	1310 ± 40 nm / 1550 ± 40 nm	5	95	13.3	14.6	0.5	0.8
1 x 2	ASC	CM000171	1310 ± 40 nm / 1550 ± 40 nm	50	50	3.3	4.0	3.3	4.0
1 x 2	ASC	CM000172	1310 ± 40 nm / 1550 ± 40 nm	40	60	4.3	5.2	2.5	3.3
1 x 2	ASC	CM000173	1310 ± 40 nm / 1550 ± 40 nm	30	70	5.5	6.4	1.5	2.4
1 x 2	ASC	CM000174	1310 ± 40 nm / 1550 ± 40 nm	20	80	7.3	8.3	1.3	1.8
1 x 2	ASC	CM000175	1310 ± 40 nm / 1550 ± 40 nm	10	90	10.3	11.5	0.8	1.1
1 x 2	ASC	CM000176	1310 ± 40 nm / 1550 ± 40 nm	5	95	13.3	14.6	0.5	0.8
1 x 2	ULC	CM000315	1310 ± 40 nm / 1550 ± 40 nm	50	50	3.3	4.0	3.3	4.0
1 x 2	ULC	CM000325	1310 ± 40 nm / 1550 ± 40 nm	40	60	4.3	5.2	2.5	3.3
1 x 2	ULC	CM000323	1310 ± 40 nm / 1550 ± 40 nm	30	70	5.5	6.4	1.5	2.4
1 x 2	ULC	CM000321	1310 ± 40 nm / 1550 ± 40 nm	20	80	7.3	8.3	1.3	1.8
1 x 2	ULC	CM000319	1310 ± 40 nm / 1550 ± 40 nm	10	90	10.3	11.5	0.8	1.1
1 x 2	ULC	CM000317	1310 ± 40 nm / 1550 ± 40 nm	5	95	13.3	14.6	0.5	0.8
1 x 2	ALC	CM000310	1310 ± 40 nm / 1550 ± 40 nm	50	50	3.3	4.0	3.3	4.0
1 x 2	ALC	CM000324	1310 ± 40 nm / 1550 ± 40 nm	40	60	4.3	5.2	2.5	3.3
1 x 2	ALC	CM000322	1310 ± 40 nm / 1550 ± 40 nm	30	70	5.5	6.4	1.5	2.4
1 x 2	ALC	CM000320	1310 ± 40 nm / 1550 ± 40 nm	20	80	7.3	8.3	1.3	1.8
1 x 2	ALC	CM000318	1310 ± 40 nm / 1550 ± 40 nm	10	90	10.3	11.5	0.8	1.1
1 x 2	ALC	CM000316	1310 ± 40 nm / 1550 ± 40 nm	5	95	13.3	14.6	0.5	0.8

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Ordering Information (cont.)

			OPTICAL BANDPASS	OUTPUT PORT COUPLING RATIO (%) EACH PORT	INSERTION LOSS (dB) EACH PORT	
I/O PORTS	I/O CONN	AFL NO.			TYP	MAX
1 x 3	USC	CM000177	1310 ± 40 nm / 1550 ± 40 nm	33.0	5.1	6.2
1 x 3	ASC	CM000178	1310 ± 40 nm / 1550 ± 40 nm	33.0	5.1	6.2
1 x 3	ULC	CM000326	1310 ± 40 nm / 1550 ± 40 nm	33.0	5.1	6.2
1 x 3	ALC	CM000311	1310 ± 40 nm / 1550 ± 40 nm	33.0	5.1	6.2

			OPTICAL BANDPASS	OUTPUT PORT COUPLING RATIO (%) EACH PORT	INSERTION LOSS (dB) EACH PORT	
I/O PORTS	I/O CONN	AFL NO.			TYP	MAX
1 x 4	USC	CM000179	1310 ± 40 nm / 1550 ± 40 nm	25.0	6.3	7.7
1 x 4	ASC	CM000180	1310 ± 40 nm / 1550 ± 40 nm	25.0	6.3	7.7
1 x 4	ULC	CM000327	1310 ± 40 nm / 1550 ± 40 nm	25.0	6.3	7.7
1 x 4	ALC	CM000312	1310 ± 40 nm / 1550 ± 40 nm	25.0	6.3	7.7

			OPTICAL BANDPASS	OUTPUT PORT COUPLING RATIO (%) EACH PORT	INSERTION LOSS (dB) EACH PORT	
I/O PORTS	I/O CONN	AFL NO.			TYP	MAX
1 x 8	USC	CM000181	1260 - 1650 nm	12.5	9.3	11.4
1 x 8	ASC	CM000182	1260 - 1650 nm	12.5	9.3	11.4
1 x 8	ULC	CM000346	1260 - 1650 nm	12.5	9.3	11.4
1 x 8	ALC	CM000347	1260 - 1650 nm	12.5	9.3	11.4

			OPTICAL BANDPASS	OUTPUT PORT COUPLING RATIO (%) EACH PORT	INSERTION LOSS (dB) EACH PORT	
I/O PORTS	I/O CONN	AFL NO.			TYP	MAX
1 x 16	ASC	CM000476	1260 - 1650 nm	6.25	13.1	13.8

			OPTICAL BANDPASS	OUTPUT PORT COUPLING RATIO (%) EACH PORT	INSERTION LOSS (dB) EACH PORT	
I/O PORTS	I/O CONN	AFL NO.			TYP	MAX
1 x 32	ASC	CM000477	1260 - 1650 nm	3.125	16.2	16.8

Insertion loss (IL) includes connector loss and Polarization Dependent Loss (PDL) across operating temperature over the Optical Bandpass.

**** Additional split ratios available upon request.*