

LASER DIODES

TYPE	PACKAGE OUTLINE	TECHNOLOGY	WAVE-LENGTH λ (nm)	OPTICAL POWER OUTPUT P_o (mW)	THRESHOLD CURRENT I_{th} (mA)	OPERATING CURRENT I_{op} (mA)	OPERATING VOLTAGE V_{op} (V)	RADIATION ANGLES		DIFFERENTIAL EFFICIENCY η (mW/mA)	LASER PIN POLARITY
								PARALLEL	PERPEN-DICULAR		
								TO JUNCTION			
$\theta_{ }$ (deg)	θ_{\perp} (deg)										
CQL20	CONSULT FACTORY	LPE	790	3	40	57	1.8	12	35	0.35	positive
CQL21		LPE	790	3	40	50	1.8	12	35	0.35	positive
CQL60A*		MOVPE	820	5	70	90	2.0	35	40	0.4	negative
CQL63A*		MOVPE	820	5	70	90	2.0	35	40	0.4	negative
CQL61A*		MOVPE	820	20	90	115	2.2	21	27	0.7	negative
CQL62A*		MOVPE	820	40	100	140	2.2	7.0	23	1.1	negative

All values typical at T = 25°C. *Products with typical peak wavelengths of 850 and 875 nm are also available.

COLLIMATOR PENS

TYPE	PACKAGE OUTLINE	TECHNOLOGY	WAVE-LENGTH λ (nm)	OPTICAL POWER OUTPUT P_o (mW)	THRESHOLD CURRENT I_{th} (mA)	OPERATING CURRENT I_{op} (mA)	OPERATING VOLTAGE V_{op} (V)	BEAM DIAMETER ϕ (mm)	BEAM COLLIMA-TION [col.] (mrad)	DIMENSION	
										DIAMETER	LENGTH
										ϕ (mm)	l (mm)
CQL30	CONSULT FACTORY	LPE	790	2	40	60	1.8	2.0 x 4.5	0.3	11	27
CQL73		LPE	790	1	40	50	1.8	2	0.6	8	17
CQL70A*		MOVPE	820	2.5	70	90	2.0	4.5	0.3	11	27
CQL75A*		MOVPE	820	2.5	70	90	2.0	4.5	0.3	8	17
OF945**		MOVPE	820	3	70	90	2.0	4.5	0.2	11	27
OF945***		MOVPE	820	20	70	150	4.0	4.5	0.35	11	27
CQL71A*		MOVPE	820	10	90	115	2.2	4.5	0.3	11	27
CQL72A*		MOVPE	820	20	105	135	2.2	2.0 x 4.0	0.3	11	27

All values typical at T = 25°C. *Products with typical peak wavelengths of 850 and 875 nm are also available. **Continuance-wave. ***Pulsed.

**LASER DIODES FOR FIBER OPTIC COMMUNICATIONS
PIGTAIL VERSIONS**

TYPE	PACKAGE OUTLINE	STRUCTURE	WAVE-LENGTH λ (nm)	OPTICAL POWER P_o (mW)	OPERATING CURRENT I_{op} (mA)	OPERATING VOLTAGE V_o (V)	DIFFERENTIAL EFFICIENCY η (mW/mA)	ENCAPSUL-ATION	FIBRE SPECIFICATION
CQF50	CONSULT FACTORY	DCPBH	1300	2	35	1.5	0.1	1	MM
CQF51		DCPBH	1300	1.5	35	1.5	0.1	1	SM
CQF52		DCPBH	1300	0.3	30	1.5	0.02	1	SM
CQF53		DCPBH	1550	0.75	40	1.5	0.03	1	SM
CQF55		DCPBH	1300	2	50	1.5	0.1	2	MM
CQF56		DCPBH	1300	1.5	50	1.5	0.05	2	SM
CQF58		DCPBH	1550	0.75	60	1.5	0.01	2	SM
CQF60*		DCPBH	1300	1.0	50	1.5	0.1	2	SM
CQF61		DCPBH/DFB	1550	0.75	50	1.5	0.03	2	SM

Encapsulations: 1 = flanged coaxial, non-cooled 2 = DIL-14 TE cooled. *Designed for high bit-rate operation up to 4 Gbits/s.

PHILIPS COMPONENTS
Discrete Products Division