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Opto Speed

Superluminescent LED Chip

SLED1550C

FEATURES

High output power
High coupling efficiency into SM Fibre
Very low ripple
Wide optical bandwidth

other submounts upon request

PRODUCT DESCRIPTION

The SLED1550C is a bulk InP / InGaAsP MOCVD grown edge emitting LED. The device operates in the 1.55 µm window and is designed to have very high output power and low spectral ripple.
The wide optical bandwidth and the high coupling efficiency to SM fibres makes these device suitable as optical source for test equipment.
The SLED1550C can be delivered as bare chip or as chip on submount.

SPECIFICATIONS @ $T_{submount}$ = 20 °C

MODEL	SLED1550C5 Min	Typ	Max	SLED1550C10 Min	Typ	Max	UNIT
Supply current	0		250	0		500	mA
Chip output power	2	3		10	15		mW
Coupling loss with SM fibre*		3			3		dB
3 dB Optical Bandwith	50	60		30	40		nm
Central emission wavelength	1530	1550	1570	1530	1550	1575	nm
Spectral ripple		0.01	0.15		0.05	0.3	dB

*This is a typical value measured with Opto Speed TAP1000 lensed SM fibres