

Opto Speed

High Speed FP-Laser 1550 nm

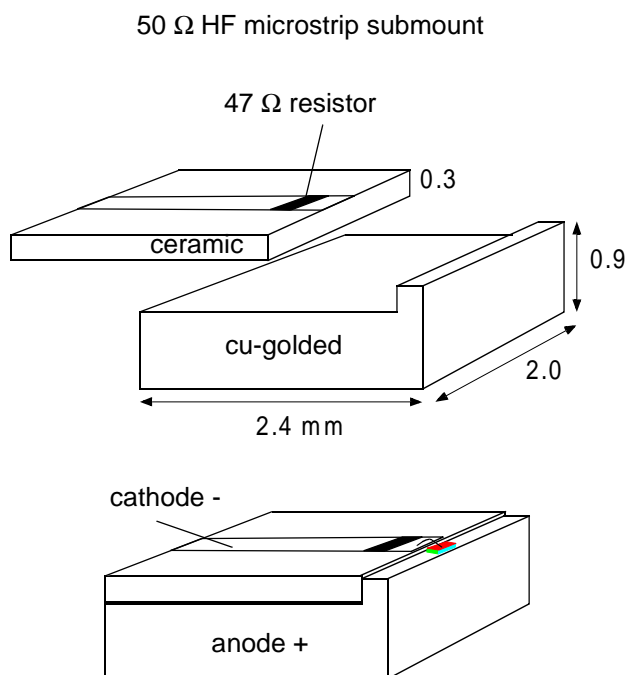
LCSH1550A-FP

■ FEATURES

Low Threshold
High Power
High Speed
High Temperature
SQW Active Layer
50 Ω matched submount

■ PRODUCT DESCRIPTION

The LCSH1550A-FP is a semiconductor Fabry Perot laser working at 1550 nm for applications up to 10 GB/s in short haul links or local networks. The device can be delivered as bare die or as chip on submount. Best performance can be obtained by using the 50 Ω matched microstrip submount. The low threshold and the good high temperature behaviour make this device suitable for low cost high speed short distance application with no need of TEC.



■ SPECIFICATIONS @ T_{ambient} = 20°C

Parameter	Conditions	LCSH1550A-FP			UNIT
		Min	Typ	Max	
Supply current		0		50	mA
Threshold current			8		mA
Threshold current	0 - 70 °C	4		30	mA
Output power	I _{th} +40 mA		8		mW
3 dB modulation bandwidth	I _{th} +40 mA		10		GHz
Central wavelength		1540	1550	1560	nm
Ext. quantum efficiency			0.2		W/A
Vert. far field angle	FWHM		43		deg
Hor. far field angle	FWHM		34		deg
Relative noise intensity	I _{th} +40mA		-135		dB/Hz