

PRELIMINARY SPEC SHEET

SCW 1536-200R

1550 nm Pulsed Laser Diode Module for OSA / OTDR Applications

Description:

The SCW 1536-200R laser diode module is a 1550 nm Al RWG F/P laser diode packaged in a 2 pin coaxial package. The laser diode is optically coupled to an SMF28 Ultra fiber pigtail. The SCW 1536-200R laser diode modules are specifically designed for uncooled optical test equipment applications where high pulsed optical power is desired. The SCW 1536-200R is RoHS compliant.

Characteristics ($T_{amb} = 25^{\circ} C$. unless otherwise specified):

Parameter	Symbol	Conditions	Min.	Typ.	Max	Units
Optical power (fiber)	P_o	$I_f = 1250 \text{ mA}; P_w = 10 \text{ us}; D/C = 1\%$	200			mW
Threshold current	I_{th}	$P_w = 10 \text{ us}; D/C = 1\%$		45	55	mA
Forward voltage	V_f	$I_f = 1250 \text{ mA}; P_w = 10 \text{ us}; D/C = 1\%$		2	3	V
Center wavelength	λ	$I_f = 1250 \text{ mA}; P_w = 10 \text{ us}; D/C = 1\%$	1530	1550	1570	nm
Spectral width (RMS)	$\Delta\lambda$	$I_f = 1250 \text{ mA}; P_w = 10 \text{ us}; D/C = 1\%$		7	12	nm
Fiber length	L		1			M
Operating temp. range	T_{op}	$I_f = 1250 \text{ mA}; P_w = 10 \text{ us}; D/C = 1\%$	-30		70	$^{\circ}C$
Storage temp. range	T_{stg}	Non operating	-40		85	$^{\circ}C$

Test Data Supplied:

Optical power @ 1250mA; $P_w = 10 \text{ us}; DC = 1\%$

λ @ 1250mA; $P_w = 10 \text{ us}; DC = 1\%$

$\Delta\lambda$ @ 1250mA; $P_w = 10 \text{ us}; DC = 1\%$

