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ML1411 PRODUCT SPECIFICATION				
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TECHNICAL SPECIFICATION
ML1411

1 SCOPE

Modulight's ML1411 is a high-performance single-mode 1625 nm bare die laser product. The laser emits ≥100 mW pulsed power (10 µs PW, 1% DC) at 1625 nm wavelength. ML1411 is designed to be used as a light source in fiber optic test and measurement equipment.

2 ORDERING INFORMATION

ML1411

3 ELECTRO-OPTICAL CHAR ACTERISTICS[1]

Parameter		Conditions	Min.	Typ.	Max	Units
Optical Power	P_o	P_w = 10 us; D/C = 1%	100			mW
Operating Current	I_{op}	P_o = 100 mW; P_w = 10 us; D/C = 1%			500	mA
Operating Voltage	V_{op}	P_{op} = 50 mW, CW			2	V
Threshold Current	I_{th}	P_w = 10 us; D/C = 1%		45		mA
Series resistance	R_s	CW		3		Ω
Center Wavelength	λ	P_w = 10 us; D/C = 1%	1590		1650	nm
Delta Lambda 25	Δλ	P_w = 10 us; D/C = 1%			7	nm

4 ABSOLUTE MAXIMUM RATINGS[2]

Parameter	Symbol	Rating	Unit
LD reverse voltage	V_{RLD}	2	V
LD forward current	I_{FLD}	750[3]	MA
Lead soldering temperature (<10 s)	T_{SLD}	260	℃
Operating case temperature	T_c	0-60℃	℃
Storage temperature	T_{STG}	-40-85℃	℃

5 SAFETY INFORMATION

- The laser light emitted from this laser diode is invisible and may be harmful to the human eye. Avoid eye exposure to the beam, both direct and reflected.
- Products are subject to the risks normally associated with sensitive electronic devices including static discharge, transients, and overload. Please take care of proper ESD protection prior to handling the products.
- These Modulight products are not intended for use in systems where product malfunction can reasonably be expected to result in personal injury.

[1] All parameters at 25°C
[2] Operation in excess of any one of these parameters may result in permanent damage.
[3] DC ≤ 1%, PW ≤ 10 µs

6 LIABILITY NOTE

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